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Also in parentheses at the end of each group of key words will be found the name of the first author, the volume and the first page number of the article. The full published title and co-authors of an article can be found by consulting the relevant entry for the first author in the Author Index. To determine in which section an article has been published, the volume number indicated for an entry should be checked against the 1987 Publication Schedule, which can be found on the inside front cover of this Index.

Readers should note that American spelling is used throughout the Subject Index.

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The Editors and Publishers welcome any comments on the usefulness of this Index, together with suggestions for improvements.

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Metabolic regulation; Ascorbic acid; Nucleotide pool; (*N. crassa*) (Dumbrava, V.-A. (926) 331)

Adenylate energy charge
Pyruvate, orthophosphate dikinase; Phosphate-dependent activation; ADP-dependent inactivation (Nakamoto, H. (924) 360)

Adenylylsulfate kinase
Adenosine phosphosulfate; 3′-Phosphoadenosylphosphosulfate; (Rat liver) (Hommes, F.A. (924) 270)

Adherence inhibiting factor
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Adhesion
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ADP-dependent inactivation
Pyruvate, orthophosphate dikinase; Adenylate energy charge; Phosphate-dependent activation (Nakamoto, H. (924) 360)

ADPribosylation
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Adrenergic blocker
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Adrenergic receptor
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α-Adrenergic receptor
Inositol phosphate; Sodium; Lithium; Calcium; Noradrenaline; (Hamster brown adipose tissue) (Nånberg, E. (930) 438)

α_1-Adrenergic receptor
Subcellular distribution; (Rat liver) (Engfeldt, P. (928) 349)

Receptor affinity; Receptor regulation (Fratelli, M. (930) 87)

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β_2-Adrenoceptor agonist
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Adriamycin
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Membrane fluidity; Lipid composition; Membrane permeability; Drug action; Mitomycin C; (Mouse lymphoma cell) (Oth, D. (900) 198)

NMR, ^{31}P-; Cardiotoxicity; Energy metabolism; (Rat heart) (Nicolay, K. (929) 5)

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Aerobic oxidation
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2-Nitropropane; Peroxidase; Excited state; Sensitized emission (Indig, G.L. (923) 347)

Affinity chromatography
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D-Amino-acid oxidase; Polyclonal antibody; Immunoreactivity (Gavazzi, E. (915) 188)

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Estrogen sulfotransferase; FPLC; (Guinea pig) (Dick, C.M. (925) 362)

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Affinity constant
EGTA; 1,2-Bis(*o*-aminophenoxy)ethane-*N,N,N′,N′*-tetraacetic acid; BAPTA; Calcium binding; Ionic strength; Calcium chelation (Harrison, S.M. (925) 133)

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Aflatoxin B_1
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Agarose
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Age
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Cholesterol distribution; Phospholipid distribution; (Human lens) (Li, L.-K. (917) 112)

Ageing
see Aging

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Agglutinin–saccharide interaction
Oligosaccharide; Glycoprotein; Fluorescence; (Wheat germ) (Gatellier, P. (916) 428)

Aggregation
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Rouleau (aggregate) formation; Fibrinogen; Fibrinogen degradation product; Sialic acid; (Human erythrocyte) (Maeda, N. (904) 81)

Erythrocyte; Temperature dependence; Fibrinogen; Immunoglobulin G; Dextran; Poly(L-glutamic acid); (Human) (Maeda, N. (904) 319)

Aggregation behavior
Gramicidin analog; Tryptophan residue; Dioleoylphosphatidylcholine; Phase transition; NMR; X-ray diffraction (Killian, J.A. (897) 269)

Aggregation inhibitor
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ATPase, $(Ca^{2+} + Mg^{2+})$-; Sarcoplasmic reticulum; Spin label; Saturation-transfer ESR; ESR; Electron microscopy; (Rabbit muscle) (Napier, R.M. (903) 365)

Aging
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Cell surface; Concanavalin A receptor; Protein mobility; Photobleaching recovery; FRAP; (Rat liver) (Lustyik, G. (896) 57)

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α-Crystallin; Sulfhydryl group; Conformational change; Quaternary structure (Augusteyn, R.C. (915) 132)

Lipogenic enzyme; Malic enzyme; Dietary fat; Triiodothyronine; mRNA translation; (Rat liver) (Fukuda, H. (921) 43)

Collagen cross-linking; (Monkey and rat skin and lung) (Reiser, K.M. (926) 339)

Glucocorticoid receptor; (Rat liver) (Sharma, R. (930) 237)

Aglycone
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Agonist-induced activation
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***Ah* receptor**
Proteinase inhibitor; Proteinase substrate; TCDD (Kester, J.E. (925) 109)

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Alamethicin analog
Membrane–protein interaction; Tryptophan fluorescence; Fluorescence quenching; Circular dichroism; Doxyl stearic acid (Voges, K.-P. (896) 64)

β-Alanine
β-Aminoisobutyrate; β-Alanine–oxo-glutarate aminotransferase; L-β-Aminoisobutyrate aminotransferase; (Rat liver) (Tamaki, N. (925) 238)

L-Alanine
Taurocholate uptake; Sodium dependence; Membrane potential; Cholic acid; Ouabain; Gramicidin; (Rat hepatocyte) (Bear, C.E. (903) 388)

Alanine accumulation
NMR, ^{13}C-; Pyruvate metabolism; (*Aspergillus* mutant) (Dijkema, C. (931) 311)

β-Alanine carrier
Amino acid transport; Intestine; Brush-border membrane; (Rabbit ileum) (Andersen, V. (902) 145)

β-Alanine–oxo-glutarate aminotransferase
β-Alanine; β-Aminoisobutyrate; L-β-Aminoisobutyrate aminotransferase; (Rat liver) (Tamaki, N. (925) 238)

Alanine + proline rich amino acid sequences
Pyruvate dehydrogenase complex; Domain organization; Mutagenesis, in vitro; Protein engineering (Miles, J.S. (913) 117)

Alanine transport
Membrane potential; Chloride permeability; Microelectrode, ion-selective; (*Necturus* enterocyte) (Giráldez, F. (898) 248)

Glucose transport; Sodium ion/D-glucose cotransporter; Brush-border membrane; Mitomycin C; Sodium gradient; (Rat small intestine) (Mizuno, M. (902) 93)

Albumin
Aflatoxin B_1; Carcinogen–protein interaction; Fluorescence; Ligand binding; (Rat) (Dirr, H.W. (913) 300)

Genetic variant; Isoelectric focusing; Amino acid sequence; Point mutation; (Human serum) (Minchiotti, L. (916) 411)

Cholesterol solubility; Bile salt (Fukudome, K. (922) 155)

Albumin conformation
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Albumin gene
Chromatin; α-Fetoprotein gene; Nuclease-sensitive site; Transcription; DNA methylation (Parnaik, V.K. (910) 27)

Albumin–lipid interaction
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Albumin solution
NMR, ^{1}H-,^{2}H-; Relaxation time; Protein structure; (Bovine serum) (Gallier, J. (915) 1)

Albumin, succinylated
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Albumin variant
Electrophoretic mobility; Peptide mapping; Amino acid sequence; (Human) (Brennan, S.O. (912) 191)

Alcohol
Circular dichroism; ATPase, H^+-; Protein conformation; ATPase, F_1-; (Pig heart) (Guo, Y.-j. (894) 11)

Fluorescence; Lipid; Photobleaching; Fluorescence photobleaching recovery; Temperature; (*Aplysia*) (Treistman, S.N. (898) 109)

α-Tocopherol; (Rat liver mitochondria) (Bjørneboe, G.-E.A. (918) 236)

***n*-Alcohol**
Pretransition; Dipalmitoylphosphatidylcholine; Interdigitation; Spectrophotometry (Veiro, J.A. (900) 230)

Alcohol dehydrogenase
Copper centre; Blue copper protein; ESR; Charge transfer spectra; (Horse liver) (Maret, W. (912) 329)

NMR relaxation; Fluorescence; Protein conformation; Thermal transition; (Horse liver) (Wasylewski, Z. (913) 210)

Enzyme immobilization; Thermal stabilization; Cofactor regeneration (Bille, V. (915) 393)

Alcohol dehydrogenase kinetics
Diffusion control; NADH; Coenzyme association (Hasinoff, B.B. (911) 53)

Alcohol effect
Phospholipid vesicle; Model membrane; Permeability; Leakage; Calcium effect (Disalvo, E.A. (905) 9)

Alcoholic cirrhosis
Glycoprotein; α_1-Acid glycoprotein; Carbohydrate structure; Microheterogeneity; Fucosyl residue (Biou, D. (913) 308)

Alcohol–lipid interaction
NMR, ^{13}C-; Butanol; Phase transition; Dipalmitoylphosphatidylcholine; Dimyristoylphosphatidylcholine (Rowe, E.S. (905) 151)

Aldehyde dehydrogenase
Enzyme–substrate interaction (MacKerell Jr., A.D. (911) 306)

Benzaldehyde oxidation; Substituent effect; (Rat liver) (Rietveld, E.C. (914) 162)

Aldehyde reductase II
Enzyme inactivation; Diethyl pyrocarbonate; Active site; (Human placenta) (Bhatnagar, A. (916) 179)

Aldohexose-1-phosphate phosphatase
Glucose-1-phosphate phosphatase; Galactose 1-phosphate; Mannose 1-phosphate; (Skeletal muscle) (Cussó, R. (923) 52)

Aldo-keto reductase
Enzyme inactivation; Arginine residue; Chemical modification; (Human brain) (Bohren, K.M. (916) 185)

Aldolase–myofibril interaction
Enzyme kinetics; Fructose 1,6-bisphosphate (Harris, S.J. (911) 121)

Aldose reductase
Dihydrodiol dehydrogenase multiple forms; *trans*-1,2-Dihydrobenzene-1,2-diol dehydrogenase; Immunochemistry; Enzyme purification; (Guinea-pig testis) (Matsuura, K. (912) 270)

Alga
Carbon fixation; Electron transport; Photosystem; Reaction center; Turnover time; (*Dunaliella*) (Sukenik, A. (891) 205)

Alkaline nuclease
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Nuclease; Herpes simplex virus; Temperature sensitive mutant (Hafner, J. (910) 85)

Alkaline phosphatase
Brush-border enzyme; Choline; Temperature dependence; (Rat) (Tiruppathi, C. (898) 283)

Glucose transport; Aminoglycoside; (Rat kidney brush-border membrane) (Takahashi, M. (903) 31)

Phosphoacceptor; Phosphotransferase activity; Isoenzyme; Zinc ion; (Human) (Stinson, R.A. (913) 272)

Enzyme purification; Amino acid sequence; Tumor; (Rat osteosarcoma) (Hsu, H.H.T. (913) 329)

Brush-border vesicle; Duodenum; ATPase, HCO_3^-; (Rat) (Wilkes, J.M. (924) 159)

myo-Inositol; Phosphatidylinositol; Lipid transport; (Gerbil intestine) (Chu, S.-h.W. (929) 220)

Alkaline phosphodiesterase I
Bile acid; Biliary lipid; Phospholipid; Fatty acid; Cholesterol; (Rat) (Barnwell, S.G. (922) 221)

Dexamethasone; (Rat hepatocyte) (Baffet, G. (928) 144)

Alkaline proteinase inhibitor
Subtilisin inhibitor; Proteinase inhibitor; Protein structure; Plasminostreptin; Alpha helix; (*Streptomyces*) (Komiyama, T. (914) 89)

Alkali-stability
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Alkalophilic bacterium
Bacterium; Membrane permeability; Potassium permeability; Membrane potential; Sodium dependence; (*Bacillus*) (Matsukura, H. (904) 301)

***n*-Alkanol**
Anesthetic–membrane interaction; Phospholipid bilayer; Cholesterol; Moment; Order parameter; NMR, ^{2}H-; Differential scanning calorimetry (Thewalt, J.L. (905) 329)

1-*O*-Alkyl-2-acyl-GPC
Arachidonoyl-CoA : lysophosphatidylcholine acyltransferase; Neutrophil; Arachidonic acid; 1-Acyl-2-lyso-GPC; 1,2-Diacyl-GPC; Molecular species (Chilton, F.H. (917) 48)

Alkylation
Conformational change; Glucose transporter; (Human erythrocyte) (Rampal, A.L. (896) 287)

Alkyl chain heterogeneity
Platelet activating factor; Molecular species; Ionophore A23187; (Human neutrophil) (Ramesha, C.S. (921) 60)

Alkyl sulfide-agarose
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Alkyltrimethylammonium ion
Platelet aggregation; Calcium mobilization; (Bovine blood) (Kitagawa, S. (905) 75)

Allosteric effector
Dimethylaniline, *N*,*N*-; Chemical modification; Cytochrome *P*-450; NADPH–cytochrome-*c* reductase; (Rabbit); (Microsome) (Hlavica, P. (915) 28)

Allosteric regulation
Site directed mutagenesis; Lactate dehydrogenase; Protein engineering; Oligomeric stability; (Bacteria) (Clarke, A.R. (913) 72)

Glycogen phosphorylase; Protein phosphorylation; Metabolite; Enzyme kinetics; (Rabbit skeletal muscle) (Vereb, G. (915) 19)

Alpha helix
Subtilisin inhibitor; Proteinase inhibitor; Protein structure; Alkaline proteinase inhibitor; Plasminostreptin; (*Streptomyces*) (Komiyama, T. (914) 89)

Alpha oxidation
Phytanic acid; Peroxisomal disorder; Refsum's disease; Subcellular localization; (Rat liver) (Skjeldal, O.H. (921) 38)

Fatty acid; (Plant tissue) (Baardseth, P. (922) 170)

Alpha subunit
Protein phosphorylation; Carbachol; Muscarinic stimulation; ATPase, $(Na^+ + K^+)$; Stimulus-secretion coupling (Collins, S.A. (927) 392)

Alpha subunit structure
ATPase, $(Na^+ + K^+)$-; Trypsinolysis; (Toad kidney) (Zamoffing, D. (904) 381)

Alpha-toxin
Membrane damage; Liposome; Phosphatidylcholine; Cholesterol; (*S. aureus*) (Watanabe, M. (898) 257)

Alpha-toxin inhibition
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Alveolar proteinosis
Lung surfactant; Glycoprotein structure; (Human lung) (Ross, G.F. (911) 294)

Ametantrone
Mitoxantrone; Palladium complex; Circular dichroism; DNA–drug interaction; Antitumor drug (Kolodziejczyk, P. (926) 249)

Amidination
Protein modification; *S*-Methylthioacetimidate; low pH (Thumm, M. (923) 263)

Amiloride
Olfactory mucosa; Voltage clamp; Odorant-evoked current; Ouabain; Furosemide; (Bullfrog) (Persaud, K.C. (902) 65)

Amino acid
Ketogenesis; Branched chain keto acid; Hepatocyte, isolated; (Chick embryo) (Bate, A.J. (924) 7)

Amino acid composition
Cytochrome *c* crystallization; Molecular weight determination; Hexadecahemoprotein; X-ray diffraction; (*D. vulgaris* Hildenborough) (Higuchi, Y. (911) 341)

Fatty acid derivative; Lipogenesis; Enzyme induction; (Hepatocyte) (Fukuda, H. (920) 56)

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Amino acid cotransport
Electrochemical gradient; Sodium (Dawson, W.D. (897) 5)

Amino acid degradation
L-Threonine metabolism; Liver regeneration (Tabucchi, A. (926) 177)

Amino acid esterification
α-Chymotrypsin; Kinetics; Biphasic system (Remy, M.-H. (911) 252)

Amino acid, long chain
Amphiphilic amino acid; Membrane vesicle; Membrane permeability (Neumann, R. (898) 338)

Amino acid metabolism
Cold exposure; Cold acclimation; (Rat brown adipose tissue) (López-Soriano, F.J. (925) 265)

D-Amino-acid oxidase
Yeast; Flavoprotein; (*R. gracilis*) (Simonetta, M.P. (914) 136)

Polyclonal antibody; Affinity chromatography; Immunoreactivity (Gavazzi, E. (915) 188)

L-Amino-acid oxidase
Photosystem II; Oxygen evolution; Water splitting; (*Synechococcus* sp.) (Meyer, R. (893) 426)

Spectroelectrochemistry; Redox titration; Midpoint potential; Flavoprotein; Enzyme inactivation (Soltysik, S. (911) 201)

Amino acid sequence
Peroxisomal protein; cDNA cloning; Catalase; Reverse transcription; (*C. tropicalis*) (Rachubinski, R.A. (909) 35)

Gene recombination; (*R. communis* lectin) (Araki, T. (911) 191)

Cytochrome-*c* peroxidase; Heme-binding site; (*P. aeruginosa*) (Rönnberg, M. (912) 82)

Manganese; Superoxide dismutase; Primary structure; (*T. thermophilus*) (Sato, S. (912) 178)

Albumin variant; Electrophoretic mobility; Peptide mapping; (Human) (Brennan, S.O. (912) 191)

Ferredoxin; Structural homology; Cysteine distribution; (*D. africanus*) (Bovier-Lapierre, G. (913) 20)

Protamine; (Horse) (Bélaïche, D. (913) 145)

Enzyme purification; Alkaline phosphatase; Tumor; (Rat osteosarcoma) (Hsu, H.H.T. (913) 329)

Scylliorhinine Z1; Protamine; Nuclear basic protein; Sperm chromatin; (Dogfish) (Chevaillier, P. (914) 19)

Myoglobin; Autoxidation; Oxymyoglobin; (Shark); (Sperm whale) (Suzuki, T. (914) 170)

Chitinase; Enzyme classification; Lysozyme; N-terminal; (*P. quinquifolia*) (Bernasconi, P. (915) 254)

Trypsin inhibitor; α-Amylase inhibitor; Homology; Rye; (*S. cereale*) (Lyons, A. (915) 305)

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High potential heme; Proteolytic cleavage; Elastase; Cytochrome-*c* peroxidase; (*P. aeruginosa*) (Rönnberg, M. (916) 112)

Albumin; Genetic variant; Isoelectric focusing; Point mutation; (Human serum) (Minchiotti, L. (916) 411)

Hepatic lipase; Lipoprotein lipase; Pancreatic lipase; Sequence homology (Ben-Zeev, O. (919) 13)

Acyl carrier protein; Lipid synthesis; Fatty acid synthetase; (*B. napus* seed) (Slabas, A.R. (921) 50)

Protein phosphatase (McGowan, C.H. (930) 279)

Amino acid sequence homology
Secretory component; Tryptic cleavage site; Primary structure; Binding domain; (Bovine) (Beale, D. (912) 365)

Cereal storage proteins; Prolamin; Immunochemistry; Seed proteins (Festenstein, G.N. (912) 371)

Lecithin–cholesterol acyltransferase; Phosphatidylcholine–sterol acyltransferase; Phospholipase A_2; Phenylboronic acid; Enzyme kinetics; (Human plasma) (Jauhiainen, M. (918) 175)

Amino acid sequence, N-terminal
Malate dehydrogenase purification; Glucose inactivation; Isoenzymes; (*S. cerevisiae*) (Kopetzki, E. (912) 398)

Amino acid sequence, N-terminus
Textilotoxin; Subunit composition; Phospholipase A activity; Neurotoxin; (*P. textilis*) (Tyler, M.I. (915) 210)

Amino acid sequence, partial
Glyceraldehyde-3-phosphate dehydrogenase (NADP); Chloroplast enzyme; Subunit structure; Sulfhydryl group; Active site (Ferri, G. (915) 149)

Amino acid sequence, terminal
Cytochrome $P\text{-}450_{scc}$; Two dimensional electrophoresis; Chromatofocusing; Lectin peroxidase staining; (Bovine) (Tsubaki, M. (914) 246)

Amino acid substitution
F_1F_0-ATPase; Inhibition; ε-Subunit; Proton translocation (Cox, G.B. (890) 195)

Amino acid transport
Imino acid transport; Proline transport; Intestinal transport; Membrane transport; (Basolateral membrane vesicle) (Davies, S. (896) 247)

Apical membrane; Membrane potential; Lysine; Sodium ion effect; (*Necturus* intestine) (Acevedo, M. (896) 295)

Temperature dependence; Kinetics; Thermodynamics; (*E. coli*) (Eze, M.O. (897) 159)

Lysine transport; Glycine transport; Transport system y^+; Transport system A; Transport system ASC; (Mouse leukemia cell) (Lazarus, P. (898) 154)

Reconstitution; Liposome; System A; (Rat liver) (Bracy, D.S. (899) 51)

Brush-border membrane vesicle; Sodium ion dependent transport; (Bovine kidney) (Lynch, A.M. (899) 176)

Sodium ion cotransport; Carboxyl group; Sugar transport; Brush-border membrane; (Rabbit small intestine) (Weber, J. (900) 249)

Lysine; Renal tubule; Dibasic amino acid; (Rat) (Bowring, M.A. (901) 23)

Intestine; Brush-border membrane; β-Alanine carrier; (Rabbit ileum) (Andersen, V. (902) 145)

L-Glutamate; Sodium gradient; Potassium gradient; Membrane vesicle; (Human intestine) (Harig, J.M. (903) 358)

Kinetics; Viral transformation; (3T3 cell); (Simian virus transformed cell) (Gandolfi, S.A. (904) 29)

Cross-inhibition analysis; Brush-border membrane vesicle; (Human placenta) (Kudo, Y. (904) 309)

Sodium/serine (threonine) cotransport; Serine; Threonine; (*E. coli*) (Hama, H. (905) 231)

Development; Mouse blastocyst (Van Winkle, L.J. (925) 164)

Amino acid transporter
Proteinase; Transport protein; Sodium ion effect; (Pigeon erythrocyte membrane) (Charalambous, B.M. (903) 441)

9-Aminoacridine
Chloroplast coupling factor; Proton gradient; ATPase activation; ATP synthesis; (Lettuce and spinach thylakoid) (Biaudet, P. (893) 544)

Aminoacyl-tRNA binding site
Elongation factor Tu; Histidine residue; *(E. coli)* (Jonák, J. (908) 97)

4-Aminobutyrate aminotransferase mechanism
Chemical modification; Enzyme kinetics; ATP analog; Lysine residue (Kim, D.S. (916) 265)

Aminoglycoside
Alkaline phosphatase; Glucose transport; (Rat kidney brush-border membrane) (Takahashi, M. (903) 31)

Aminoglycoside antibiotic
Multilamellar liposome; Liposome; Carboxyfluorescein; Membrane permeability; Phosphatidylinositol bisphosphate; Anionic phospholipid; Ototoxicity (Au, S. (902) 80)

Amino group
Sodium ion/D-glucose cotransport; D-Glucose transport; Phlorizin binding; Chemical modification; Brush-border membrane; (Pig kidney) (Poirée, J.-C. (900) 291)

***p*-Aminohippuric acid secretion**
Probenecid; Anion exchange; Renal cortex; Membrane vesicle; (Rabbit) (Eveloff, J. (897) 474)

β-Aminoisobutyrate
β-Alanine; β-Alanine–oxo-glutarate aminotransferase; L-β-Aminoisobutyrate aminotransferase; (Rat liver) (Tamaki, N. (925) 238)

L-β-Aminoisobutyrate aminotransferase
β-Alanine; β-Aminoisobutyrate; β-Alanine–oxo-glutarate aminotransferase; (Rat liver) (Tamaki, N. (925) 238)

Aminoisobutyric acid transport
Insulin; Membrane fluidity; Glycogen synthesis; (Hepatoma cell) (Bruneau, C. (928) 297)

Aminooxyacetic acid
Membrane potential; Respiration; Glycolysis; (Synaptosome) (Kauppinen, R.A. (930) 173)

Aminopeptidase M
Opioid peptide; Peptide metabolism; (Cerebral vasculature) (Churchill, L. (923) 35)

Amino phospholipid
Cholesterol effect; Phospholipid composition; Vesicle aggregation; Membrane fusion; Divalent cation; Cation effect; Choline phospholipid (Stamatatos, L. (905) 81)

Aminophospholipid asymmetry
Fatty acid; Trinitrobenzenesulfonic acid; Brush-border membrane; (Trout intestine) (Pelletier, X. (902) 223)

Aminopyrine
Gluconeogenesis; Fructose; Drug metabolism; NADPH; (Hepatocyte) (Bánhegyi, G. (927) 406)

Amino terminal
Chitinase; Enzyme classification; Lysozyme; Amino acid sequence; (*P. quinquifolia*) (Bernasconi, P. (915) 254)

Amino terminal acetylation
Hemoglobin; Subunit assembly; (Human fetus) (Kasten-Jolly, J. (913) 89)

Amino terminal sequence
Cytochrome *P*-450; Constitutive enzyme; HPLC; (Female rat) (Imaoka, S. (916) 358)

Cytochrome *P*-450; Constitutive form; (Male rat) (Funae, Y. (926) 349)

Ammonia metabolism
Cyanobacterium; Photosystem II; Herbicide; (*A. caroliniana*) (Newton, J.W. (891) 49)

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Amphiphilic helix
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Androstenedione 5β-reductase
Cortisone; Androstenedione; Cortisone 5β-reductase; 3-Oxo-5β-steroid : $NADP^+$ Δ^4-oxidoreductase (Furuebisu, M. (912) 110)

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Beta-hairpin
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Fructose-1,6-bisphosphatase; Proteolysis; (Yeast) (Schäfer, W. (925) 150)

Catalase
Liposome-embedded heme; Heme; Tocopherol; Oxygen carrier (Yuasa, M. (900) 160)

Peroxisomal protein; cDNA cloning; Reverse transcription; Amino acid sequence; (*C. tropicalis*) (Rachubinski, R.A. (909) 35)

Spectral property; Protoheme; Novel heme; (Spinach) (Hirasawa, M. (911) 37)

Beta-oxidation; Fatty acyl-CoA; (Rat peroxisome) (Hashimoto, F. (921) 142)

Peroxisome biogenesis; Zellweger syndrome (Wanders, R.J.A. (923) 478)

Superoxide dismutase; High energy phosphate; Xanthine; Xanthine oxidase; Myocardial metabolism; (Rat) (McDonough, K.H. (926) 127)

Cell injury; Antibody conjugate; Inflammation; (Endothelial cell) (Sakharov, D.V. (930) 140)

Catalase activation
Enzyme–detergent interaction; SDS; (*A. niger*) (Jones, M.N. (913) 395)

Catalase compound I
Catalase monomer; Catalase, lyophilized (Sichak, S.P. (925) 282)

Catalase, lyophilized
Catalase monomer; Catalase compound I (Sichak, S.P. (925) 282)

Catalase monomer
Catalase, lyophilized; Catalase compound I (Sichak, S.P. (925) 282)

Catalytic hydrogenation
Membrane fluidity; Fatty acid saturation; Antigen expression; Fluorescence polarization; (GRSL leukemic cells) (Benkö, S. (896) 129)

Catalytic mechanism
Fucosidase; Active site; Kinetics; (Human liver) (White, Jr., W.J. (912) 132)

Catalytic rate constant
Ribosomal peptidyltransferase; Puromycin reaction; formylmethionyl-tRNA; Initiation; (*E. coli*) (Synetos, D. (923) 275)

Catalytic site
ATPase, F_1-; Quaternary structure; Chemical modification; Beta subunit; (Bovine heart mitochondria) (Nieboer, P. (894) 277)

α-Amylase; Subsite binding energy; Malto-oligosaccharide; Nitrophenylmaltoside; (Porcine pancreas) (Seigner, C. (913) 200)

Catechol
Enzyme kinetics; Suicide substrate; Tyrosinase inactivation; Transient phase (García-Cánovas, F. (912) 417)

Catecholamine
Diet; Fatty acid; Cholesterol; Membrane lipid; Adenylate cyclase; Adrenergic receptor; (Rat heart) (McMurchie, E.J. (898) 137)

Tyrosinase; Dopa oxidation; ESR (Korytowski, W. (924) 383)

Catechol oxidation
Dihydropteridine reductase; Horseradish peroxidase; Quinone; NADH; (Apomorphine, Dopamine) (Milstien, S. (923) 333)

Cathepsin C
Dipeptidyl-aminopeptidase I; Hydrophobic bonding; Enzyme immobilization; Peptide digest; (Bovine) (Hutchinson, D.W. (916) 1)

Cathepsin G
Proteinase inhibitor; Elastase; Rheumatoid arthritis; (Human articular cartilage) (Burkhardt, H. (924) 312)

Cation binding
ATPase, $(Na^+ + K^+)$-; Rubidium occlusion; (Pig kidney) (Shani, M. (904) 13)

Cation dependence
Band 3 protein; Anion channel protein; Phosphorylation; Protein kinase effector; Magnesium ion effect; Manganese ion effect; (Human erythrocyte membrane) (Vasseur, C. (899) 1)

Cation effect
Cholesterol effect; Phospholipid composition; Vesicle aggregation; Membrane fusion; Divalent cation; Amino phospholipid; Choline phospholipid (Stamatatos, L. (905) 81)

Platelet function; Calcium uptake; Calcium antagonist (Blache, D. (923) 401)

Cationic amphiphilic drug
Lysophospholipase A; Lysophospholipid micelle; Drug–lipid interaction; (Rat brain) (Leli, U. (918) 126)

Cation-proton exchange
Amphotericin B; Polyene antibiotic; Spin label; Lipid vesicle; ESR; (*Leishmania* promastigote) (Urbina, J.A. (897) 467)

Cation stimulation
Electrochemical proton gradient; Plasma membrane; Membrane vesicle; ATPase; (Yeast) (Gläser, H.-U. (905) 287)

Cation transport
ATPase, $(H^+ + K^+)$-; Proteoliposome; (Pig gastric mucosa) (Skrabanja, A.T.P. (903) 434)

C3b
Prostaglandin E_2; Prostaglandin E_1; Thromboxane B_2; Arachidonic acid; (Human monocyte) (Nichols, F.C. (927) 149)

CDPdiacylglycerol
myo-inositol; Phosphatidylinositol metabolism; Inositoltransferase; Diet; (Rat liver) (Anderson, L.L. (917) 341)

Cell activation
Protein synthesis; Opsonized zymosan; (Human eosinophil) (Ramesh, K.S. (923) 241)

Nucleotide; ATP; Purinergic site; Lymphocyte (El-Moatassim, C. (927) 437)

Cell adhesion
Conductivity; Radiowave frequencies; Myogenesis; Cell-cell recognition; Myoblast fusion; Differentiation; (Chicken myoblast) (Bonincontro, A. (903) 89)

Sialic acid; Aging; (Erythrocyte); (Endothelial cell) (Dhermy, D. (904) 201)

Cell-binding sequence
Fibronectin; Chemotaxis; (Fibroblast) (Long, M.M. (928) 114)

Cell–cell interaction
Lysophosphatidylserine; Phosphatidylserine; Nerve growth factor; (Leukocyte); (Mast cell) (Mietto, B.L. (930) 145)

Cell-cell recognition
ESR; Membrane order; Myogenesis; Membrane fusion; Differentiation; (Chicken myoblast) (Santini, M.T. (896) 19)

Conductivity; Radiowave frequencies; Myogenesis; Myoblast fusion; Cell adhesion; Differentiation; (Chicken myoblast) (Bonincontro, A. (903) 89)

Cell composition
Extracellular space; Cell volume; (Rat kidney slice) (Law, R.O. (931) 276)

Cell culture
Glucose transport; Sodium dependence; High-affinity transport; Kinetics; Inhibition; (Rabbit proximal tubule cell) (Alavi, N. (899) 9)

Proximal tubule; Sodium compound transport; (Opossum kidney) (Malström, K. (902) 269)

Lipid emulsion; Lipid transfer; Cholesterol; Lipoprotein; (Human fibroblast) (Ekman, S. (921) 347)

Aorta; Atherosclerosis; Elastin; Low-density lipoprotein; Phagocytosis; (Insoluble complex) (Orekhov, A.N. (928) 251)

Type II cell; Functional differentiation; Phospholipid metabolism; Lung surfactant; (Rat lung) (Shannon, J.M. (931) 143)

Cell cycle
Sodium arsenite; Hyperthemia; Leucine incorporation; Phosphate; Stress Protein; (Lymphoma) (Pipkin, J.L. (927) 334)

Isoproterenol; Protein synthesis; (Parotid gland) (López-Solís, R.O. (930) 463)

Cell cycle dependent gene
Cytochalasin D; Cell proliferation; Serum stimulation; (Monkey kidney cells) (Takasuka, T. (909) 161)

Cell cycle inhibition
Oncogene expression; Protooncogene; c-*fos*; c-*myc*; (Rat lymphoma cell line) (Andrews, G.K. (909) 231)

Cell density
Chylomicron uptake; Compactin; Mevalonate; LDL receptor; (Hepatocyte) (Jensen, E. (917) 74)

Cell differentiation
Retinoic acid metabolism; Airway epithelial cell; (Rabbit) (Bhat, P.V. (922) 18)

Cell-free system
Poly(A)-binding protein; Translation; Poly(A)$^+$ RNA; (Pea embryo axes) (Sieliwanowicz, B. (908) 54)

Cell-free translation
mRNA; Basement membrane; Collagen; Laminin; Entactin; (Engelbreth-Holm-Swarm tumor, Mouse) (Laurent, M. (908) 241)

Acid α-glucosidase; α-Glucosidase; Precursor synthesis; Glycogenosis type II; (Human fibroblast) (Van der Horst, G.T.J. (910) 123)

Transglutaminase biosynthesis; Sodium butyrate; (Transformed human fibroblasts) (Lee, K.N. (928) 22)

Cell fusion
Cell shape; Phospholipid organization; Flow cytometry; (Bovine erythrocyte); (Goat erythrocyte) (Farooqui, S.M. (904) 239)

Cell injury
Catalase; Antibody conjugate; Inflammation; (Endothelial cell) (Sakharov, D.V. (930) 140)

Mercuric chloride ; Calcium; Organic mercurial; Cytosolic calcium; Endoplasmic reticulum; (Rabbit renal tubular cells) (Smith, M.W. (931) 130)

Cell isolation
Intracellular ion concentration; Hyperosmolar solution; Ion transport; Epithelial cell; Small intestine; (Guinea-pig) (Del Castillo, J.R. (901) 201)

Cell line T-47D
Progestin; Lactate dehydrogenase; Breast cancer (Hagley, R.D. (930) 167)

Cell membrane
Lipid bilayer; Patch clamp; Electrical breakdown; (Human erythrocyte); (Mouse L-cell) (Chernomordik, L.V. (902) 360)

Cell permeabilization
Osmolarity; Exocytosis; (Chromaffin cell) (Ladona, M.G. (927) 18)

Cell proliferation
Cytochalasin D; Cell cycle dependent gene; Serum stimulation; (Monkey kidney cells) (Takasuka, T. (909) 161)

Methotrexate-phosphatidylethanolamine metabolite; Phosphatidylethanolamine analog; (Liposome) (Kinsky, S.C. (917) 211)

Cell rotation
Toxin; Mercuric salt; Electrorotation; Cell-wall conductivity; (*S. cerevisiae*) (Geier, B.M. (900) 45)

Cell separation
Paroxysmal nocturnal hemoglobinuria; Aqueous phase system; Complement (Pangburn, M.K. (902) 278)

Cell shape
Lipid asymmetry; Membrane skeleton; Phospholipase A_2; (Erythrocyte) (Chandra, R. (902) 253)

Phospholipid organization; Flow cytometry; Cell fusion; (Bovine erythrocyte); (Goat erythrocyte) (Farooqui, S.M. (904) 239)

Cell storage
Magnesium ion assay; NMR; (Erythrocyte) (Bock, J.L. (928) 8)

Cell surface
Concanavalin A receptor; Protein mobility; Photobleaching recovery; FRAP; Aging; (Rat liver) (Lustyik, G. (896) 57)

Antibody binding; Monoclonal anti-liposome antibody; Liposome; Phospholipid; Trypsin; Immunofluorescence; Enzyme-linked immunosorbent assay (Fogler, W.E. (903) 265)

Erythrocyte aggregation; Glycocalyx; Dextran; Membrane anisotropy (Bäumler, H. (923) 22)

Cell surface binding
Immunoliposome; Drug carrier; Fluorescence; Monoclonal antibody; (Human cancer cell line) (Sunamoto, J. (898) 323)

Cell surface charge
Electrophoretic mobility; Neoplastic transformation; Transmembrane potential; (Rat kidney cell) (Price, J.A.R. (898) 129)

Cell surface receptor
Calcium dependent binding protein; Cytoskeleton; Protein phosphorylation; Immunochemistry; (Human placenta) (Webb, P.D. (916) 288)

Cellular compartmentation
Sodium ion; Phosphate uptake; Phospholipid biosynthesis; (Mouse neuroblastoma) (Glanville, N.T. (904) 392)

Cellular differentiation
DNA repair; Uracil-DNA glycosylase; Cellular proliferation; (*A. cepa*) (Hernandez, P. (908) 293)

Cellular erb B gene
Estrogen; Growth regulation; Steroid hormone; Growth factor receptor; (Avian oviduct) (Simmen, F.A. (910) 182)

Cellular proliferation
DNA repair; Uracil-DNA glycosylase; Cellular differentiation; (*A. cepa*) (Hernandez, P. (908) 293)

Cellular retinoic acid-binding protein
Cellular retinol-binding protein; Retinoic acid; Retinol; (Human placenta) (Okuno, M. (923) 116)

Cellular retinol-binding protein
Cellular retinoic acid-binding protein; Retinoic acid; Retinol; (Human placenta) (Okuno, M. (923) 116)

Cellulase
Endo-β-1,4-glucanase; Mercury; Copper; Irreversible inhibition; (*S. commune*) (Clarke, A.J. (916) 213)

Endoglucanase; Monoclonal antibody; (*T. emersonii*) (McHale, A.P. (924) 147)

Cellulase binding
N-Bromosuccinimide; Ultraviolet difference spectroscopy; Fluorescence spectroscopy; Chemical modification; (*S. commune*) (Clarke, A.J. (912) 424)

Cell volume
Sodium-potassium cotransport; Furosemide; Erythrocyte; Microcytosis (O'Neill, W.C. (896) 196)

Dielectric dispersion; Membrane capacity; Conductivity, intracellular; Surface morphology; Anisosmotic challenge; Leukemia; (Rat basophil leukemia cell) (Irimajiri, A. (896) 214)

Anion transport; Membrane-active drug; Cetiedil; (CHO cell) (Breuer, W.V. (897) 127)

Extracellular space; Cell composition; (Rat kidney slice) (Law, R.O. (931) 276)

Cell wall
Mannoprotein; Glycoprotein; Secretion; (*S. cerevisiae*) (Sanz, P. (924) 193)

Cell-wall conductivity
Cell rotation; Toxin; Mercuric salt; Electrorotation; (*S. cerevisiae*) (Geier, B.M. (900) 45)

Cephalosporin
Dipeptide; Transport system; Photoaffinity labeling; Brush-border membrane vesicle; (Rat small intestine) (Kramer, W. (905) 65)

Ceramide
Water barrier; Stratum corneum; ω-Hydroxyacid; (Pig skin) (Wertz, P.W. (917) 108)

Lamellar bodies; Sphingomyelin synthesis; Phosphatidylcholine; (rat lung) (Lecerf, J. (918) 48)

Cereal storage proteins
Prolamin; Immunochemistry; Amino acid sequence homology; Seed proteins (Festenstein, G.N. (912) 371)

Cerebro-hepato-renal syndrome
Lipid transfer protein; Sterol carrier protein 2; Zellweger syndrome; (Peroxisome) (Van Amerongen, A. (919) 149)

Cerebroside bilayer
Phase structure; Differential scanning calorimetry; X-ray diffraction (Reed, R.A. (896) 153)

Cerebrotendinous xanthomatosis
Bile acid; Ursodeoxycholic acid; GC-MS; (Human) (Koopman, B.J. (917) 238)

Cholestanol synthesis; 7α-Dehydroxylation; Cholesta-4,6-dien-3-one; 4-Cholesten-3-one; (Rat); (Human) (Buchmann, M.S. (922) 111)

Cerulenin inhibition
Fatty acid; Phospholipid synthesis; Sterol synthesis; (*E. floccosum*) (Colard, O. (921) 341)

Cetiedil
Anion transport; Cell volume; Membrane-active drug; (CHO cell) (Breuer, W.V. (897) 127)

CF_0F_1 activation
ATP synthesis; ATP hydrolysis; Redox-state; Membrane; Energization; Chloroplast (Junesch, U. (893) 275)

c-*fos*
Oncogene expression; Cell cycle inhibition; Protooncogene; c-*myc*; (Rat lymphoma cell line) (Andrews, G.K. (909) 231)

Chain elongation
Desaturation; Essential fatty acid; Fatty acid binding protein; Fatty acid synthesis; Sex difference; (Rat hepatocyte) (Hagve, T.-A. (920) 149)

Channel conformation
Dioleoylphosphatidylcholine; Gramicidin; Hexagonal H_{II} phase; Lipid polymorphism; Circular dichroism; NMR, ^{31}P-; Small angle X-ray scattering (Tournois, H. (905) 222)

Channel counting
Calcium dependence; Potassium channel; Inside-out vesicle; (Human red blood cell) (Alvarez, J. (903) 543)

Channel length
Single-channel conductance; Gramicidin A channel (Urry, D.W. (902) 137)

Channelling
D-Glucuronate; D-Glucuronate reductase; *myo*-Inositol oxygenase; Metabolite transfer (Naber, N.I. (911) 365)

Chaotropic anion
Tonoplast; ATPase, H^+-; Pyrophosphatase, H^+-; Proton pump; (*B. vulgaris*) (Rea, P.A. (904) 1)

Charge-pulse technique
Mobile charge; Anesthetic–membrane interaction; Membrane surface charge; (*V. utricularis*) (Büchner, K.-H. (903) 241)

Charge recombination
Photon counting; Chlorophyll fluorescence lifetime; Photosynthesis; Photosystem II (Hodges, M. (892) 42)

Charge recombination, low-temperature
Photosynthetic reaction center; Conformational state; (Bacterial) (Parot, P. (893) 534)

Charge separation
Photosystem I; P-700; Reaction center; EXAFS (Golbeck, J.H. (893) 149)

Photovoltage; Photosynthesis; Photosystem II; Trapping; Antenna organization (Trissl, H.-W. (893) 305)

Charge stabilization
Photovoltage; Photosystem I; Excitation energy trapping; Annihilation (Trissl, H.-W. (893) 320)

Charge transfer
Singlet emission quenching; Chlorophyll *a*; Nitroaromatic; Electron transfer; Solvent effect (Droupadi, P.R. (894) 284)

Lipid monolayer; Lateral electrical conduction; Phase transition (Sakurai, I. (904) 405)

Metalloprotein; Magnetic circular dichroism; Low temperature; Rubredoxin; Fe-S cluster (Bennett, D.E. (911) 71)

Charge transfer spectra
Copper centre; Blue copper protein; Alcohol dehydrogenase; ESR; (Horse liver) (Maret, W. (912) 329)

Chelation
Dopamine β-monooxygenase; Active site copper; Copper; pH; Enzyme conformation (Syvertsen, C. (914) 6)

Chelator
Thalassemia; Iron overload; Iron mobilization; Ferritin; Transferrin (Kontoghiorghes, G.J. (924) 13)

Chemical cross-linking
ATPase, $(Ca^{2+} + Mg^{2+})$-; Sarcoplasmic reticulum; Spin label; Saturation-transfer ESR; ESR; (Rabbit muscle) (Napier, R.M. (903) 374)

Chemical modification
ATPase, H^+-; Inhibitor protein; Translocation, H^+- (Guerrieri, F. (892) 284)

ATPase, F_1-; Quaternary structure; Beta subunit; Catalytic site; (Bovine heart mitochondria) (Nieboer, P. (894) 277)

Plastocyanin; P-700; Cytochrome *f*; Photosystem I; Ethylenediamine (Anderson, G.P. (894) 386)

Sodium ion/D-glucose cotransport; D-Glucose transport; Phlorizin binding; Amino group; Brush-border membrane; (Pig kidney) (Poirée, J.-C. (900) 291)

Rhodanese; Enzyme inactivation; Sulfhydryl group; Tetrathionate (Prasad, A.R.S. (911) 102)

Creatine kinase; Reactive sulfhydryl group (Zhou, H.-M. (911) 136)

Glyoxalase II purification; Enzyme kinetics; Isoelectric focusing; (Rat liver, brain) (Principato, G.B. (911) 349)

Histidine residue; Diethylpyrocarbonate; Immunoglobulin G; C1q binding; (Rabbit) (McCall, M.N. (912) 9)

Myosin gizzard; ATP-binding site; ATPase, actin-activated; (Turkey) (Srivastava, S. (912) 230)

Cellulase binding; *N*-Bromosuccinimide; Ultraviolet difference spectroscopy; Fluorescence spectroscopy; (*S. commune*) (Clarke, A.J. (912) 424)

Pyruvate kinase; Enzyme activity; Sulfhydryl group; (Rat liver) (Rafter, G.W. (913) 195)

Glyoxalase I purification; Lactoylglutathione lyase; Active site; (Monkey intestine) (Baskaran, S. (913) 377)

Dimethylaniline, *N*,*N*-; Allosteric effector; Cytochrome *P*-450; NADPH–cytochrome-*c* reductase; (Rabbit); (Microsome) (Hlavica, P. (915) 28)

Phospho*enol*pyruvate carboxykinase; Phenylglyoxal; Butanedione; Enzyme inactivation; (*S. cerevisiae*) (Malebrán, L.P. (915) 385)

Enzyme inactivation; Aldo-keto reductase; Arginine residue; (Human brain) (Bohren, K.M. (916) 185)

4-Aminobutyrate aminotransferase mechanism; Enzyme kinetics; ATP analog; Lysine residue (Kim, D.S. (916) 265)

tRNA; Tryptophanyl-tRNA synthetase; Tryptophan–tRNA ligase; Binding stoichiometry; Fluorescence quenching; (Bovine pancreas) (Fournier, M. (916) 350)

Alpha-toxin inhibition; Toxin inhibition; Binding site; Arginine; 1,2-Cyclohexanedione (Hebert, T.E. (916) 419)

Cytochrome *P*-450 LM4; Tyrosine; Peptide mapping; Substrate binding; Reduction kinetics; (Rabbit liver) (Jänig, G.-R. (916) 512)

Chemiexcitation
β-Phenylpyruvic acid; Horseradish peroxidase; Energy transfer; Sensitized emission (Villablanca, M. (926) 224)

Chemiluminescence
Dietary fat; Hydroperoxide; Icosanoid release; (Rat heart) (Pelosi, F.U.G. (919) 93)

Sulfatide; Oxygen radical generation; Lipid peroxidation; Demyelination; (Leukocyte) (Chiba, T. (930) 10)

Respiratory burst; Chemoattractant; Calcium ionophore; (Human neutrophil) (Dahlgren, C. (930) 33)

Chemiosmosic hypothesis
Photophosphorylation; Thylakoid membrane; Adenine nucleotide; (*P. sativum*) (Quick, W.P. (893) 197)

Chemiosmotic coupling
Transhydrogenase; ATP synthase (Persson, B. (894) 239)

Chemiosmotic lysis
Insulin secretion; Secretory granule; Permeabilization; (Pancreatic islet) (Jones, P.M. (929) 302)

Chemoattractant
Respiratory burst; Chemiluminescence; Calcium ionophore; (Human neutrophil) (Dahlgren, C. (930) 33)

Chemoreception
cyclic AMP; Cyclic nucleotide binding; (*Paramecium*) (Smith, R. (928) 171)

Chemotactic peptide
Polyamine; Superoxide production; Phorbol ester; (Human neutrophil) (Guarnieri, C. (930) 135)

Calcium signal; Hyperosmolality; Lysosomal enzyme release; (Neutrophil) (Chandler, D.E. (931) 175)

Chemotaxis
Monensin; fMet-Leu-Phe; Receptor uptake; Superoxide production; Granulocyte activation (Jesaitis, R.K. (927) 382)

Fibronectin; Cell-binding sequence; (Fibroblast) (Long, M.M. (928) 114)

Chemotrophic bacterium
Electron-transport chain; Cytochrome *c*; Cytochrome *b*; CO binding; (*C. aurantiacus*) (Wynn, R.M. (891) 216)

Chemotrophic growth
Cytochrome *b*-560; Electron transfer chain; (*Rps. viridis*) (Kämpf, C. (894) 228)

Chenodeoxycholate
Bile acid binding; Membrane vesicle; Cholate; Sinusoidal membrane vesicle; Canalicular membrane vesicle; (Rat liver) (Yachi, K. (901) 15)

Chief cell
Calcium metabolism; Cholecystokinin; Inositol trisphosphate; Calcium ionophore; Ionophore A23187; Cytoskeleton; (Guinea-pig gastric mucosa) (Tsunoda, Y. (901) 35)

Porcine ileal polypeptide; Calcium release; Gastric acid secretion; Pepsinogen secretion; Parietal cell; (Guinea-pig gastric mucosa) (Tsunoda, Y. (905) 118)

Pepsinogen secretion; Cyclic AMP; Cholera toxin receptor; Bacterial toxin; (Guinea pig stomach) (Raufman, J.-P. (928) 199)

Chiral discrimination
Bacteriorhodopsin; 5,6-Epoxyretinal; Optical resolution; Proton pumping (Hiraki, K. (891) 177)

Chitinase
Enzyme classification; Lysozyme; Amino acid sequence; N-terminal; (*P. quinquifolia*) (Bernasconi, P. (915) 254)

Transglycosylation; (*Nocardia*) (Usui, T. (923) 302)

Chloride
Photosynthesis; Oxygen evolution; S-state distribution; Calcium; (*A. nidulans*) (Pistorius, E.K. (890) 352)

Chloride absorption
Calcium ionophore; Bicarbonate secretion; Isobutylmethylxanthine; Anion transport; cAMP; (Turtle bladder) (Ehrenspeck, G. (900) 56)

Chloride activity, intracellular
Microelectrode, Cl^--selective; Membrane potential; (Mouse liver) (Lyall, V. (903) 56)

Chloride / bicarbonate exchange
pH regulation; intracellular pH; NMR, ^{31}P-; (Renal epithelium) (Jans, A.W.H. (931) 326)

Chloride–bicarbonate ion exchange
Bicarbonate ion transport; Kidney tubule; Basolateral membrane vesicle; (Rat kidney) (Grassl, S.M. (905) 475)

Chloride binding
Photosystem II; NMR, ^{35}Cl-; Oxygen evolving complex; Polypeptide; (Spinach) (Coleman, W.J. (894) 453)

Chloride dependence
Brush-border membrane; Proximal tubule; Glycine transport; Sodium dependence; (Porcine kidney) (Scalera, V. (903) 1)

Chloride effect
Oxygen evolution; Photosystem II; Protein, 33 kDa; Thermoluminescence (Vass, I. (892) 224)

Photosynthesis; Oxygen evolution; NMR, ^{35}Cl-; (Mangrove thylakoid) (Preston, C. (894) 477)

Proton pump, electrofenic; Proton transport; ATPase, Mg^{2+}-stimulated; 8-Azido-ATP inhibition; (Lysosome) (Cuppoletti, J. (899) 276)

Chloride exchange diffusion
Tight junction permeability; Sodium transport, active (Fidelman, M.L. (931) 205)

Chloride ion effect
Photosystem II; Manganese; Oxygen evolution (Hsu, B.-D. (890) 89)

Chloride permeability
Membrane potential; Alanine transport; Microelectrode, ion-selective; (*Necturus* enterocyte) (Giráldez, F. (898) 248)

Chloride transport
Thylakoid membrane; Immunochemistry; (Chloroplast) (Vambutas, V. (893) 69)

4-Chloroaniline
NAD(P)H-driven *N*-oxidation; Cytochrome b_5; Microsome; Cytochrome *P*-450; (Rabbit liver) (Golly, I. (913) 219)

***p*-Chloromercuribenzoate**
Erythrocyte membrane; Cytoskeleton; Transmembrane protein; (Rat) (Kunimoto, M. (905) 257)

Chlorophyll
Chloroplast biogenesis; Protochlorophyllide reductase; Thylakoid membrane; Grana formation; Acclimation; Light level; (*Z. mays*) (Bennett, J. (892) 118)

Artificial photosynthesis; Oil–water interface; Photooxidation of water; Oxygen photoevolution (Kandelaki, M.D. (893) 170)

Membrane stability; Thylakoid membrane; Cholesterol; Acyl chain; Unsaturated acyl chain; (*A. laidlawii*) (Wieslander, Å. (901) 250)

Chlorophyll *a*
Chlorophyll *a'*; Epimerization; Kinetics; HPLC (Watanabe, T. (892) 197)

Singlet emission quenching; Nitroaromatic; Charge transfer; Electron transfer; Solvent effect (Droupadi, P.R. (894) 284)

Freeze-fracture; Monogalactosyldiacylglycerol; Phase transition; X-ray diffraction (Dea, P. (896) 11)

Chlorophyll *a'*
Chlorophyll *a*; Epimerization; Kinetics; HPLC (Watanabe, T. (892) 197)

Chlorophyll c_3
Chlorophyll *c* pigment; Micro-alga; HPTLC, reverse phase; Absorption spectroscopy; (*E. huxleyi*) (Jeffrey, S.W. (894) 180)

Ultraviolet circular dichroism; Secondary structure; Pigment protein complex; Light harvesting complex; (*P. lutherii*); (*Ph. tricornutum*) (Hiller, R.G. (894) 365)

Chlorophyll *c* pigment
Chlorophyll c_3; Micro-alga; HPTLC, reverse phase; Absorption spectroscopy; (*E. huxleyi*) (Jeffrey, S.W. (894) 180)

Chlorophyll *c* purification
Prasinophyceae; Pheoporphyrin derivate; Spectroscopy (Wilhelm, C. (892) 23)

Chlorophyll fluorescence
Oxygen evolution; Photosystem II; Fluorescence yield; Photoinhibition (Moll, B.A. (890) 205)

Fluorescence quenching; Benzoquinone; Naphthoquinone; (Barley chloroplast) (Karukstis, K.K. (891) 256)

Oxygen evolution; Photosystem II; Water splitting; (Inside out thylakoid) (Delrieu, M.-J. (892) 163)

Photosynthetic electron transport; Carbon dioxide; Oxygen; Carbon assimilation; (*Z. mays* L.); (*T. aestivum* L.) (Ireland, C.R. (893) 434)

Electron transfer; Photosynthesis; Photosystem II; Protein phosphorylation; (Pea and lettuce chloroplast) (Hodges, M. (894) 138)

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Photosynthesis; Photophosphorylation; Oxygen evolution; (Barley protoplast) (Furbank, R.T. (894) 332)

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Cholestanol synthesis
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Clofibroyl-CoA hydrolase
Clofibrate; Microsomal fraction; (Rat liver mitochondrion) (Berge, R.K. (918) 60)

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Cold exposure
Cold acclimation; Amino acid metabolism; (Rat brown adipose tissue) (López-Soriano, F.J. (925) 265)

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Collagen maturation
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Collagen receptor
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Concanavalin A
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Cortisone 5β-reductase
Cortisone; Androstenedione; 3-Oxo-5β-steroid : $NADP^+$ Δ^4-oxidoreductase; Androstenedione 5β-reductase (Furuebisu, M. (912) 110)

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$C\bar{1}s$
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Cysteine incorporation
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Cysteine proteinase
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5-*S*-Cysteinyldopa
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Cytochrome oxidase; Cytochrome a_3; Spin–spin distance; ESR; (Bovine heart) (Goodman, G. (980) 360)

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Cytochrome *b*-type oxidase
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Cytochrome *c*
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Cytochrome c_1
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Cytochrome-*c* peroxidase
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Cytochrome, *c*-type
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Dihydrodiol dehydrogenase multiple forms
trans-1,2-Dihydrobenzene-1,2-diol dehydrogenase; Immunochemistry; Aldose reductase; Enzyme purification; (Guinea-pig testis) (Matsuura, K. (912) 270)

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5,6-Dihydroxyindole-2-carboxylic acid
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1,25-Dihydroxyvitamin D-3 receptor
1,25-Dihydroxyvitamin D-3 metabolism; Receptor up-regulation; Ketoconazole; Vitamin D-3; (Rat osteogenic sarcoma cell) (Pols, H.A.P. (931) 115)

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Dolichyl phosphate
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Ethanol oxidation
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Phospholipase A_2; Lipid–protein interaction; Microinterface desolvation; Interfacial activation; Heavy atom effect; Fluorescence (Jain, M.K. (905) 1)

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Fusion kinetics
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Gangliosidosis
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Gene expression
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Dithiothreitol; ssDNA-protein complex; (Filamentous phage) (Vaccaro, M. (923) 29)

Gene recombination
Ricin E B-chain: Amino acid sequence; (*R. communis* lectin) (Araki, T. (911) 191)

Gene regulation
Transcription induction; Steroid hormone; Hormone regulatory element (Beato, M. (910) 95)

Gene sequence
Glyceraldehyde-3-phosphate dehydrogenase gene; (Nematode, *C. elegans*) (Yarbrough, P.O. (908) 21)

Genetic alteration
DNA sequence; Avian sarcoma virus; Transformation; (Rat cell) (Roguel, N. (908) 12)

Genetic analysis
Cytochrome, *c*-type; Mutant; Rieske iron-sulfur protein; Cytochrome bc_1 complex; (*Rb. capsulatus* MT113) (Davidson, E. (890) 292)

Genetics
Lecithin–cholesterol acyltransferase; Dietary lipid; Sex difference; Cholesterol; HPLC; (Baboon) (Mott, G.E. (919) 190)

Genetics, rat esterases
Carboxylesterase; Lipase; (Rat liver endoplasmic reticulum) (Mentlein, R. (913) 27)

Genetic variant
Albumin; Isoelectric focusing; Amino acid sequence; Point mutation; (Human serum) (Minchiotti, L. (916) 411)

Gene transfer
Electrical breakdown; Electropermeabilization; Volume distribution; Transfection; (Mouse L-cell) (Stopper, H. (900) 38)

Geranylgeranyl pyrophosphate synthase
Terpenoid synthesis; Isopentenyl pyrophosphate isomerase; Prenyltransferase; (*Capsicum* chromoplast) (Dogbo, O. (920) 140)

Germination
Post-transcriptional regulation; Poly(A)$^+$ RNA; RNA polymerase II; Poly(A) polymerase; Host–pathogen interaction; (Wheat) (Lakhani, S. (910) 189)

G_{M1} gangliosidosis
Galactosylsphingosine; Lactosylsphingosine; β-Galactosidase; Globoid cell leukodystrophy; (Human brain) (Goda, S. (920) 259)

Ghost fiber, myosin-free
Actin, F-; Myosin; Heavy meromyosin, (de)phosphorylated; Fluorescence, polarized (Kąkol, I. (913) 1)

Giant nerve fiber
Stellate ganglion; Lipid metabolism; (Squid giant axon) (Tanaka, T. (922) 85)

Gingerol
ATPase, Ca^{2+}-; (Sarcoplasmic reticulum) (Kobayashi, M. (903) 96)

Ginsenoside
Agglutination; Arabinose; Phospholipid vesicle; Phosphatidylcholine; Spin label (Fukuda, K. (900) 267)

Gla domain
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Glanzmann's thrombasthenia
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Protein synthesis; Fibrinogen storage; (Human platelet) (Belloc, F. (925) 218)

Globoid cell leukodystrophy
Galactosylsphingosine; Lactosylsphingosine; β-Galactosidase; G_{M1} gangliosidosis; (Human brain) (Goda, S. (920) 259)

α2u-Globulin
Length polymorphism; cDNA clone; mRNA; Sequence heterogeneity; Noncoding region; (Rat liver) (Ichiyoshi, Y. (910) 43)

Glomerular basement membrane
Glycosaminoglycan; Polyelectrolyte; Metal ion binding; Binding isotherm (Templeton, D.M. (926) 94)

Glucagon
Membrane fluidity; Forskolin; Vasopressin; cyclic AMP synthesis; Prostaglandin E_2; (MDCK cell) (Friedlander, G. (903) 341)

Respiratory chain; Cytochrome bc_1 complex; NADH dehydrogenase; Lipid peroxidation; (Rat) (Halestrap, A.P. (927) 280)

S-Adenosylmethionine; Insulin; Protein phosphorylation; Phospholipid methyltransferase (Merida, I. (928) 92)

Receptor binding; Receptor specificity (Pingoud, V. (929) 182)

Carnitine transport; Insulin; (Rat liver) (Kispal, G. (929) 226)

Epinephrine; Insulin; Fructose-1,6-bisphosphatase; Phosphorylation; (Rat liver) (Ekdahl, K.N. (929) 318)

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Glucagon receptor binding; Perifusion; GTP; (Rat liver plasma membranes) (Frandsen, E.K. (929) 74)

Glucagon receptor binding
Glucagon degradation; Perifusion; GTP; (Rat liver plasma membranes) (Frandsen, E.K. (929) 74)

cyclic Glucan
Polysaccharide; Mass spectrometry, fast atom bombardment; (*A. tumefaciens*) (Miller, K.J. (901) 112)

NMR, ^{13}C-; Polysaccharide; (*Rhizobium*) (Batley, M. (901) 119)

Glucocorticoid
ADPribosylation; Metallothionein; Gene expression; Heavy metal effect; (Mouse mammary tumor cells) (Tanuma, S.-i. (910) 197)

Lipoprotein; Cholesterol; ACTH; (Rat serum) (Mitamura, T. (917) 121)

Glucocorticoid receptor
Antiglucocorticoid; Isoelectrofocusing (Danze, P.-M. (927) 129)

Glucocorticoid receptor 7-8 S regeneration; Heterooligomeric structure; (Rat liver) (Tymoczko, J.L. (930) 114)

Aging; (Rat liver) (Sharma, R. (930) 237)

Differentiation; Dexamethasone; Insulin; (Preadipocyte) (Hainque, B. (931) 347)

Glucocorticoid receptor oligomer
DNA binding; Sedimentation property; (HeLa S_3 cell) (Rossini, G.P. (924) 119)

Glucocorticoid receptor 7-8 S regeneration
Glucocorticoid receptor; Heterooligomeric structure; (Rat liver) (Tymoczko, J.L. (930) 114)

Gluconate metabolism
Gluconokinase; Pentose cycle; (*B. megaterium* spore) (Otani, M. (924) 467)

Gluconeogenesis
Enzyme regulation; Glycolysis; Enolase isoenzyme; Compartmentation; (*S. cerevisiae*) (Entian, K.-D. (923) 214)

Fructose; Drug metabolism; NADPH; Aminopyrine; (Hepatocyte) (Bánhegyi, G. (927) 406)

Gluconokinase
Gluconate metabolism; Pentose cycle; (*B. megaterium* spore) (Otani, M. (924) 467)

Glucose
Membrane depolarization; Micropuncture; (Rat ileum) (Stewart, C.P. (902) 293)

Diabetes mellitus; Galactose; Polyunsaturated fatty acid diet; Saturated fatty acid diet; Ileum; Jejunum (Thomson, A.B.R. (905) 426)

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Adenine nucleotide content; ATP; (Pancreatic islet) (Malaisse, W.J. (927) 190)

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Phosphofructokinase; Fructose 2,6-bisphosphate; Pulmonary surfactant; Development; (Rat lung) (Heesbeen, E.C. (924) 284)

Glucose carrier
Half-turnover; Carbohydrate transport; (Human erythrocyte) (Lowe, A.G. (903) 547)

D-Glucose dehydrogenase
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Glucose inactivation
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Glucose oxidation
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Glucose 6-phosphate
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Glucose-1-phosphate phosphatase
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Glucose stimulation
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Glucose transport
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Sodium dependence; Cell culture; High-affinity transport; Kinetics; Inhibition; (Rabbit proximal tubule cell) (Alavi, N. (899) 9)

Cycloheximide; Glucose/proton symport; Facilitated diffusion; (*P. ohmeri*) (Verma, R.S. (900) 139)

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Alanine transport; Sodium ion/D-glucose cotransporter; Brush-border membrane; Mitomycin C; Sodium gradient; (Rat small intestine) (Mizuno, M. (902) 93)

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Alkaline phosphatase; Aminoglycoside; (Rat kidney brush-border membrane) (Takahashi, M. (903) 31)

Carrier model; 3-*O*-Methylglucose; Michaelis-Menten model; Intestinal absorption; (Rabbit intestine) (Thomson, A.B.R. (903) 229)

Sodium/glucose cotransport; Methyl glucopyranoside; Brush-border membrane; (Guinea pig) (Brot-Laroche, E. (904) 71)

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D-Glucose transport
Sodium ion/D-glucose cotransport; Phlorizin binding; Chemical modification; Amino group; Brush-border membrane; (Pig kidney) (Poirée, J.-C. (900) 291)

Glucose transporter
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Galactose; Fructose; Transport regulation; (*K. marxianus*) (Gasnier, B. (903) 425)

Subcellular distribution; Brain microvessel; (Rat brain) (Matthaei, S. (905) 417)

Hexose transport; Phorbol ester; Growth factor; Phosphorylation (Allard, W.J. (929) 288)

Glucose uptake
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Glucose utilization
Intermediary metabolism; Selenium deficiency; Nitrogen excretion; Carbon dioxide exhalation; (Mouse) (Wendel, A. (925) 94)

α-Glucosidase
Cell free translation; Acid α-glucosidase; Precursor synthesis; Glycogenosis type II; (Human fibroblast) (Van der Horst, G.T.J. (910) 123)

acid α-Glucosidase; Maturation; Surfactant; (Fetal rat lung) (Bourbon, J.R. (917) 203)

Lamellar body; Lysosomal enzyme; Pulmonary surfactant; (Human lung) (De Vries, A.C.J. (922) 259)

acid α-Glucosidase
α-Glucosidase; Maturation; Surfactant; (Fetal rat lung) (Bourbon, J.R. (917) 203)

acid β-Glucosidase
Gaucher disease; Acid β-glucosidase; Active site; Enzyme kinetics; (Human) (Osiecki-Newman, K. (915) 87)

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D-Glucuronate reductase; *myo*-Inositol oxygenase; Metabolite transfer; Channelling (Naber, N.I. (911) 365)

D-Glucuronate reductase
D-Glucuronate; *myo*-Inositol oxygenase; Metabolite transfer; Channelling (Naber, N.I. (911) 365)

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Carbamoylphosphate synthetase; Gene expression; Reciprocal regulation; (Rat liver) (De Groot, C.J. (908) 231)

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Glutamine transport
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γ-Glutamyl arylamidase
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γ-Glutamyltransferase
Glutamine transport; Sodium ion dependence; Metabolic acidosis; Brush border; (Rat kidney) (Harrison, D. (902) 301)

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γ-Glutamyl arylamidase; (*Bacillus*) (Hwang, S.Y. (925) 356)

L-γ-Glutamyltransferase
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Glutathione
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Lipid peroxidation; Hypertrophic kidney; Cytochrome *P*-450; (Rat kidney microsome) (Laskowska-Klita, T. (922) 386)

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Singlet oxygen; Superoxide; Hematoporphyrin derivative; Cysteine; NADH; (Spin trapping) (Buettner, G.R. (923) 501)

Ascorbic acid; Dehydroascorbic acid; Autoxidation (Winkler, B.S. (925) 258)

Glyoxalase; Phorbol ester; Zymosan; (Human neutrophil) (Thornalley, P.J. (931) 120)

Glutathione-insulin transhydrogenase
Thiol:protein disulfide isomerase; Monoclonal antibody (Dawson, D.B. (923) 389)

Glutathione peroxidase
Arachidonate metabolism; Lipid hydroperoxide; Prostaglandin; Selenium deficiency; (Rat aorta); (Rabbit aorta) (Funk, C.D. (921) 213)

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Glutathione *S*-transferase
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Tyrosinase; Glutathionyl-dopa; L-3,4-Dihydroxyphenylalanine (Miranda, M. (913) 386)

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Isozyme; Benign prostatic hypertrophy; (Human prostate) (Tew, K.D. (926) 8)

Glutathione peroxidase; (Fetal rat liver) (Scott, T.R. (926) 264)

Ligandin synthesis; Enzyme subunit; (Hepatocyte) (DasGupta, A. (929) 1)

Glutathionyl-dopa
Tyrosinase; Glutathione *S*-transferase; L-3,4-Dihydroxyphenylalanine (Miranda, M. (913) 386)

Glyceraldehyde-3-phosphate dehydrogenase gene
Gene sequence; (Nematode, *C. elegans*) (Yarbrough, P.O. (908) 21)

Glyceraldehyde-3-phosphate dehydrogenase inactivation
Protein denaturation; Active site probe (Xie, G.-F. (911) 19)

Malate dehydrogenase; Hydrostatic pressure; Proteolytic inactivation; Pressure inactivation (Hennessey, Jr., J.P. (913) 285)

Glyceraldehyde-3-phosphate dehydrogenase (NADP)
Chloroplast enzyme; Subunit structure; Sulfhydryl group; Active site; Amino acid sequence, partial (Ferri, G. (915) 149)

NADP dependence; Phosphorylation; (*Chlamydomonas*) (Iglesias, A.A. (925) 1)

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Glyceroglycolipid
Headgroup orientation; Molecular dynamics; NMR, ^{2}H (Jarrell, H.C. (897) 69)

Glycerol
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Glycerol incorporation
Phospholipid metabolism; Phosphate turnover; (Human platelet) (Tysnes, O.-B. (930) 338)

Glycerolipid biosynthesis
Acyl CoA : sn-glycerol-3-phosphate acyltransferase; Fatty acid CoA ligase; (Liver, Morris hepatoma 7288C) (Harvey, B.E. (917) 247)

Glycerol-3-phosphate acyltransferase
Levonorgestrel; Phosphatidic acid phosphatase; (Rat liver mitochondrion, microsome) (Khokha, R. (918) 120)

Glycerol-3-phosphate dehydrogenase
Bilirubin inhibition; Malate dehydrogenase; Aspartate aminotransferase; Jaundice; Icterus (McLoughlin, D.J. (893) 7)

Glycerophospholipid
Phospholipase A_2; Enzyme kinetics; Fluorescence (Thuren, T. (917) 411)

Phospholipase A_2; Arachidonic acid; Diacyl lipid; Phospholipid hydrolysis; (Rat platelet) (Colard, O. (921) 333)

Transverse tubule; Lipid composition; (Frog skeletal muscle) (Pediconi, M.F. (921) 398)

Glycine transport
Amino acid transport; Lysine transport; Transport system y^+; Transport system A; Transport system ASC; (Mouse leukemia cell) (Lazarus, P. (898) 154)

Brush-border membrane; Proximal tubule; Chloride dependence; Sodium dependence; (Porcine kidney) (Scalera, V. (903) 1)

Glycocalyx
Cell surface; Erythrocyte aggregation; Dextran; Membrane anisotropy (Bäumler, H. (923) 22)

Glycoconjugate
Sphingolipid; Arabinogalactan; (Black gram) (Kondo, Y. (919) 156)

Glycogen
Pulmonary surfactant; Fatty acid synthase; Dexamethasone; Triiodothyronine; Fetal lung maturation; (Fetal rat lung) (Pope, T.S. (918) 141)

Glycogenesis stimulation
Glucose; Insulin; (Fetal hepatocyte) (Menuelle, P. (928) 332)

Glycogenolysis
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Glycolysis; Phosphofructokinase; Phosphorylase; NMR, ^{31}P-; (Skeletal muscle) (Yamada, T. (931) 170)

Adenylate cyclase; Glucagon; Secretin; Insulin; (Isolated perfused rat liver) (Yamatani, K. (931) 180)

Glycogenosis type II
Cell free translation; Acid α-glucosidase; α-Glucosidase; Precursor synthesis; (Human fibroblast) (Van der Horst, G.T.J. (910) 123)

Glycogen phosphorylase
Protein phosphorylation; Allosteric regulation; Metabolite; Enzyme kinetics; (Rabbit skeletal muscle) (Vereb, G. (915) 19)

Enzyme kinetics; Isoenzyme; Peptide mapping; (Rat heart) (Berndt, N. (915) 217)

Glycogen phosphorylase *a*
NMR, ^{31}P-; Phosphagen; (Shrimp muscle) (Kamp, G. (929) 121)

Glycogen synthase
Casein kinase; Isozyme structure; Phosphopeptide map; (Skeletal muscle) (Hegazy, M.G. (927) 269)

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Glycogen synthesis
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Glycolipid
Ganglioside; Golgi apparatus; Endoplasmic reticulum; (Rat liver) (Matyas, G.R. (921) 599)

Glycolithocholic acid
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Glycolysis
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Enzyme regulation; Gluconeogenesis; Enolase isoenzyme; Compartmentation; (*S. cerevisiae*) (Entian, K.-D. (923) 214)

Fructose 2,6-bisphosphate; cyclic AMP; Carbon source; Fungus; (*N. crassa*) (Dumbrava, V.-A. (925) 210)

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Glycogenolysis; Phosphofructokinase; Phosphorylase; NMR, ^{31}P-; (Skeletal muscle) (Yamada, T. (931) 170)

Glycolytic enzyme
Phosphate exchange, ATP-; NMR, ^{31}P; Saturation transfer; Thyroid hormone-T_3; (Rat liver) (Thoma, W.J. (893) 225)

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Glycoprotein
Rod outer segment membrane; Gold label; Electron microscopy; Western blot; (Bovine retina) (Molday, L.L. (897) 335)

Nucleoside transport; Kinetic property; Nitrobenzylthioinosine; (Pig erythrocyte) (Woffendin, C. (903) 18)

Membrane protein; Lectin affinity chromatography; Peptide mapping; (Oligodendroglial membrane) (Schmelzer, C.H. (903) 103)

Sialic acid; Hemagglutinin; (Bovine erythrocyte membrane); (Influenza virus) (Suzuki, Y. (903) 417)

Lectin affinity chromatography; Bile acid transporter; Cholate; Phalloidin; (Rat liver) (Ziegler, K. (903) 510)

Nuclear envelope protein; Nuclear matrix; Protein kinase; Iodination; (Rat liver nucleus) (Smith, P.J. (904) 365)

α_1-Acid glycoprotein; Carbohydrate structure; Microheterogeneity; Alcoholic cirrhosis; Fucosyl residue (Biou, D. (913) 308)

Glucosyltransferase; Nucleotide sugar; Substrate hydrolysis (Marchase, R.B. (916) 157)

Agglutinin–saccharide interaction; Oligosaccharide; Fluorescence; (Wheat germ) (Gatellier, P. (916) 428)

Pancreasome; Secretion; Shedding; Membrane lipid; Microvesicle; (Pancreas) (Beaudoin, A.R. (922) 62)

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Fibrinogen binding; (Human erythroleukemia cell) (Thiagarajan, P. (924) 127)

Vesicular stomatitis virus; Transformation; Oligosaccharide processing; Rous sarcoma virus; (BHK cells) (Hunt, L.A. (924) 175)

Cell wall; Mannoprotein; Secretion; (*S. cerevisiae*) (Sanz, P. (924) 193)

Sulfated polysaccharide; Blood group A; (Ovarian cyst) (Wu, S.-S. (924) 420)

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Glycoprotein binding
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Glycoprotein catabolism
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Glycoprotein IIIa
Proteinase treatment; Glanzmann's thrombasthenia; RIA; (Human platelet membrane) (Cierniewski, C.S. (924) 216)

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Glycoprotein secretion
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***N*-Glycoprotein synthesis**
Lipid-linked saccharide; Glycosyltransferase; Dolichyl phosphate; (Pea) (Torossian, K. (925) 305)

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Glomerular basement membrane; Polyelectrolyte; Metal ion binding; Binding isotherm (Templeton, D.M. (926) 94)

Pulsed electromagnetic field; cyclic AMP; Parathyroid hormone; (Chondrocyte) (Hiraki, Y. (931) 94)

Glycosaminoglycan receptor
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Glycosaminoglycan sequence
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Glycosphingolipid
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Glycosyltransferase
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Glyoxalase I purification
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Gold label
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Golgi
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Histone synthesis; Plant development; Wheat grain; (*T. aestivum*) (Spiker, S. (910) 157)

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Hormone cleavage
Prolactin; Mammary gland; Target tissue; Hormone characterization (Vick, R.S. (931) 196)

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Hydroperoxyoctadecadienoic acid
5-Lipoxygenase; 11-Lipoxygenase; ESR; Leukotriene A_4; Hydroperoxyicosatetraenoic acid; (Potato tuber) (Mulliez, E. (916) 13)

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Hydroxymethylglutaryl-CoA synthase
Hydroxymethylglutaryl-CoA reductase; HMG-CoA synthase; Inhibitor; Cholesterol biosynthesis; β-Lactone; F-244 (Tomoda, H. (922) 351)

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7β-Hydroxysteroid dehydrogenase
3β,7β-Dihydroxy-12-oxo-5β-cholanic acid; 3β-Hydroxysteroid dehydrogenase; (*Ruminococcus*) (Akao, T. (921) 275)

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Photosystem II; Cytochrome b_6/f complex; Benzoquinone; (Spinach chloroplast) (Oettmeier, W. (890) 260)

Ascorbic acid; Membrane transport; Sodium ion cotransport; Serum; (3T6 fibroblast) (Padh, H. (901) 283)

RNA polymerase; DNA binding; Promoter complex; (*E. coli*) (Hofer, B. (910) 254)

Methenyltetrahydrofolate synthetase; Kinetic constant; (Human liver) (Bertrand, R. (911) 154)

Hydroxymethylglutaryl-CoA synthase; Hydroxymethylglutaryl-CoA reductase; HMG-CoA synthase; Cholesterol biosynthesis; β-Lactone; F-244 (Tomoda, H. (922) 351)

Protein phosphatase I; Enzyme phosphorylation; $pp60^{v\text{-}src}$; Enzyme–substrate interaction (Johansen, J.W. (928) 63)

Inhibitor-2
Protein phosphatase; Phosphoserine residues; Phosphorylation; Mass spectrometry; FABMS; (Rabbit skeletal muscle) (Holmes, C.F.B. (929) 208)

Inhibitor protein
ATPase, H^+-; Chemical modification; Translocation, H^+- (Guerrieri, F. (892) 284)

Initiation
Ribosomal peptidyltransferase; Catalytic rate constant; Puromycin reaction; formylmethionyl-tRNA; (*E. coli*) (Synetos, D. (923) 275)

Initiation factor
Protein synthesis; Guanine nucleotide; Translational control; (Rat liver) (Proud, C.G. (914) 63)

Initiation site
Nucleotide distribution; Transcription; Termination site; mRNA sequence (Nussinov, R. (908) 143)

Injury
Prostaglandin E_2 synthesis; Ultraviolet light B; Confluence; Keratinocyte; (Human epidermis) (Pentland, A.P. (919) 71)

Inorganic carbon transport
Carbon transport; Oxygen inhibition; Action spectrum; (*A. nidulans* mutant) (Ogawa, T. (893) 219)

Inosine monophosphate dehydrogenase
Sesquiterpene lactone; Antineoplastic drug (Page, J.D. (926) 186)

***myo*-Inositol**
Phosphatidylinositol; Alkaline phosphatase; Lipid transport; (Gerbil intestine) (Chu, S.-h.W. (929) 220)

Inositol 1,4,5-trisphosphate
Sarcoplasmic reticulum; Calcium release; Smooth muscle; (Canine aorta) (Watras, J. (931) 354)

Inositol 1,4-bisphosphatase
Inositol 1-phosphatase; Lithium ion; Inositol metabolism; (Rat brain) (Takimoto, K. (929) 327)

Inositol bisphosphate
Calcium ion release; (Sarcoplasmic reticulum) (Mikos, G.J. (927) 256)

Inositol hexaphosphate
NMR, ^{31}P-; Perchloric acid extracts; intracellular pH; (*Dictyostelium* amoeba) (Martin, J.-B. (931) 16)

Inositol lipid turnover
Phospholipase C; Platelet activating factor; Thrombin; Phosphatidylinositol 4,5-bisphosphate (Shukla, S.D. (929) 134)

Inositol metabolism
Inositol 1,4-bisphosphatase; Inositol 1-phosphatase; Lithium ion; (Rat brain) (Takimoto, K. (929) 327)

***myo*-Inositol oxygenase**
D-Glucuronate; D-Glucuronate reductase; Metabolite transfer; Channelling (Naber, N.I. (911) 365)

Inositol 1-phosphatase
Inositol 1,4-bisphosphatase; Lithium ion; Inositol metabolism; (Rat brain) (Takimoto, K. (929) 327)

Inositol phosphate
Phorbol ester; Cholecystokinin octapeptide; Amylase secretion; Calcium mobilization; (Rabbit acini) (Willems, P.H.G.M. (930) 230)

Sodium; Lithium; Calcium; Noradrenaline; α-Adrenergic receptor; (Hamster brown adipose tissue) (Nånberg, E. (930) 438)

Inositol phosphate metabolism
Glucose stimulation; Carbamylcholine; (Rat pancreatic islet) (Best, L. (927) 112)

Inositol phospholipid
Serotonin-S_2 receptor; Signal transduction; (Human platelet) (De Chaffoy de Courcelles, D. (927) 291)

Inositol phospholipid metabolism
Unsaturated fatty acid; Membrane fluidity; Cytosolic free calcium; Calcium ion; Platelet aggregation; (Rabbit) (Sato, T. (931) 157)

Inositoltransferase
myo-inositol; Phosphatidylinositol metabolism; CDPdiacylglycerol; Diet; (Rat liver) (Anderson, L.L. (917) 341)

Inositol trisphosphate
Intestinal transport; Ca^{2+} transport; (Chicken intestine) (Ilundain, A. (896) 113)

Calcium metabolism; Cholecystokinin; Calcium ionophore; Ionophore A23187; Cytoskeleton; Chief cell; (Guinea-pig gastric mucosa) (Tsunoda, Y. (901) 35)

Skeletal muscle; Excitation-contraction coupling; Sarcoplasmic reticulum; Ca^{2+} release; (Skinned rabbit muscle fiber) (Donaldson, S.K. (927) 92)

Cyclic AMP; Phosphorylation; Ca^{2+} release; (Human platelet) (Enouf, J. (928) 76)

Calcium ion uptake; Glucose 6-phosphate; (Permeabilized hepatocyte) (Benedetti, A. (928) 282)

Carbamylcholine; (Rat acini) (Doughney, C. (928) 341)

Cadmium ion; Insulin release; Calcium channel; (Pancreatic β cell) (Nilsson, T. (929) 81)

GTP; Calcium ion release; Protein phosphorylation; (Rat liver microsome) (Lukács, G.L. (9311) 251)

Insect flight muscle
Lipophorin; Lipoprotein receptor; Lipid transfer; (Locust) (Hayakawa, Y. (919) 58)

Insecticide
Phosphatidylcholine bilayer; DDT; *n*-(9-Anthroyloxy)fatty acid; Fluorescence polarization; Membrane fluidity (Chefurka, W. (896) 181)

Insecticide–membrane interaction
Cholesterol; Model membrane; Phase transition (Antunes-Madeira, M.C. (901) 61)

Insect specificity
Colloid-osmotic lysis; δ-Endotoxin action; *(B. thuringiensis)* (Knowles, B.H. (924) 509)

Inside-out vesicle
Calcium pump; Proteolysis; Vanadate; Conformational change; Phosphorylation; (Red cell membrane) (Sarkadi, B. (899) 129)

ATPase, Mg^{2+}-; Proton transport; Lysophosphatidylcholine; Triton X-100; (Corn root plasmalemma). (Grouzis, J.-P. (903) 449)

Calcium dependence; Potassium channel; Channel counting; (Human red blood cell) (Alvarez, J. (903) 543)

Insulin
Glucose transport; Red cell membrane; Age; ATP; (Human) (Jensen, M.R. (900) 282)

Glucose transport; Plasma membrane; Specific gravity; Sedimentation characteristic; (Rat adipocyte) (Shibata, Y. (902) 154)

Diabetes mellitus; Epidermal growth factor receptor; Triiodothyronine; (Rat) (Kashimata, M. (923) 496)

Protein kinase C; Phosphorylation; (Rat heart sarcolemma) (Loten, E.G. (927) 324)

S-Adenosylmethionine; Glucagon; Protein phosphorylation; Phospholipid methyltransferase (Merida, I. (928) 92)

Membrane fluidity; Glycogen synthesis; Aminoisobutyric acid transport; (Hepatoma cell) (Bruneau, C. (928) 297)

Glucose; Glycogenesis stimulation; (Fetal hepatocyte) (Menuelle, P. (928) 332)

Carnitine transport; Glucagon; (Rat liver) (Kispal, G. (929) 226)

Epinephrine; Glucagon; Fructose-1,6-bisphosphatase; Phosphorylation; (Rat liver) (Ekdahl, K.N. (929) 318)

Dexamethasone; Serum; mRNA level; Insulin receptor; (Human lymphoblast) (Maassen, J.A. (930) 72)

NADPH–cytochrome-*c* reductase; Hormonal control; Dexamethasone; Triiodothyronine; (Cultured hepatocyte) (Van der Hoeven, T. (931) 59)

Adenylate cyclase; Glucagon; Secretin; Glycogenolysis; (Isolated perfused rat liver) (Yamatani, K. (931) 180)

Glucocorticoid receptor; Differentiation; Dexamethasone; (Preadipocyte) (Hainque, B. (931) 347)

Insulin action
Lipid synthesis, Triacylglycerol secretion; Fish oil; Safflower oil; Dietary adaption; (Rat liver) (Topping, D.L. (927) 423)

Insulin binding
Serum concentration; Membrane fluidity; Differentiation; ESR; (Friend erythroleukemia) (Simon, I. (896) 165)

Insulin degradation
Hormone receptor; (Rat adipocyte) (Sonne, O. (927) 106)

Insulin-like activity
Growth hormone; Growth promoting activity; Diabetogenic activity; IGF-1 level; (*ob*/*ob* mouse) (Kostyo, J.L. (925) 314)

Insulin-like growth factor
Somatomedin; (Limb bud) (Bhaumick, B. (927) 117)

Insulin receptor
Hormone receptor; Epidermal growth factor; Secondary structure; (Human); (Drosophila) (Bajaj, M. (916) 220)

Membrane fluidity; Phospholipid composition; 25-Hydroxycholesterol; (Hepatoma cell) (Bruneau, C. (928) 287)

Insulin; Dexamethasone; Serum; mRNA level; (Human lymphoblast) (Maassen, J.A. (930) 72)

Insulin release
Cadmium ion; Calcium channel; Inositol trisphosphate; (Pancreatic β cell) (Nilsson, T. (929) 81)

Insulin secretion
Chemiosmotic lysis; Secretory granule; Permeabilization; (Pancreatic islet) (Jones, P.M. (929) 302)

Interbilayer water
Bilayer separation; Phospholipid Leadgroup; Molecular dynamics; Monte Carlo method; Computer simulation (Hussin, A. (897) 423)

Interdigitated gel phase
Lipid bilayer; High pressure infrared spectroscopy; Fourier transform infrared spectroscopy (Siminovitch, D.J. (900) 163)

Interdigitation
Pretransition; *n*-Alcohol; Dipalmitoylphosphatidylcholine; Spectrophotometry (Veiro, J.A. (900) 230)

X-ray diffraction; NMR, ^2H-; Diether lipid; Phospholipid; Cholesterol–phospholipid interaction (Siminovitch, D.J. (901) 191)

Spin label; Fatty acid; Glycosphingolipid; Lactosyl ceramide (Grant, C.W.M. (902) 169)

Dipalmitoylphosphatidylglycerol; Phase behavior; X-ray diffraction; Differential scanning calorimetry; Differential scanning dilatometry (Wilkinson, D.A. (905) 447)

Interfacial activation
Phospholipase A_2; Lipid–protein interaction; Fluorescence; Microinterface desolvation; Heavy atom effect; Fluorescence (Jain, M.K. (905) 1)

Interferon action
Protein synthesis; Two-dimensional gel electrophoresis; Growth control; (Mouse fibroblast) (Sundström, S. (908) 275)

Interferon-γ
Receptor binding domain; Amphiphilicity; Hydrophobic moment; Antiviral activity (Hoshino, T. (916) 245)

Interleukin 1
Plasminogen activator; Arthritis; (Human articular chondrocyte) (Bunning, R.A.D. (924) 473)

Proteoglycan synthesis; (Synovial cell) (Langris, M. (927) 34)

Platelet activating factor; PAF, lyso; (Human endothelial cell) (Bussolino, F. (927) 43)

Collagen synthesis; mRNA; (Skin fibroblast) (Kähäri, V.-M. (929) 142)

Intermediary metabolism
Selenium deficiency; Glucose utilization; Nitrogen excretion; Carbon dioxide exhalation; (Mouse) (Wendel, A. (925) 94)

Intermediate filament
α-Keratin; (Bovine epidermis) (Skerrow, D. (915) 125)

Image analysis; Keratin; Psoriasis (Trachtenberg, S. (923) 327)

Intermediate state
20β-Hydroxysteroid dehydrogenase denaturation; Protein structure stabilizing agent; Fluorescence spectroscopy; Circular dichroism (Vecchio, G. (914) 122)

Intermediate transfer
Kinetic analysis; Isotope dilution; Triosephosphate converting enzyme; Enzyme kinetics (Orosz, F. (915) 53)

Intermolecular force
Protein adsorption; Myelin basic protein; Cytochrome *c*; Concanavalin A; Poly(L-lysine) (Afshar-Rad, T. (915) 101)

Internal membrane pressure
Local anesthetic; Dibucaine; Lipid monolayer; Lipid bilayer (Seelig, A. (899) 196)

Interstitial tissue
Kininogen; Kallikrein kinin system; Hageman factor dependent system; Thiol proteinase inhibitor; (Guinea-pig skin) (Yamamoto, T. (916) 332)

Intervening sequence
Splicing; Lariat; hnRNP; Major late transcription unit; (Adenovirus-2) (Gerst, C. (908) 251)

DNA sequencing; Hybrid gene; Hemoglobin variant; (Human) (Liu, J.-Z. (909) 208)

Intestinal absorption
Carrier model; 3-*O*-Methylglucose; Glucose transport; Michaelis-Menten model; (Rabbit intestine) (Thomson, A.B.R. (903) 229)

Liposome; Drug delivery; Atropine methyl bromide; Muscle contraction; *(Xenopus)* (Kashiwagura, T. (903) 248)

Intestinal transport
Ca^{2+} transport; Inositol trisphosphate; (Chicken intestine) (Ilundain, A. (896) 113)

Amino acid transport; Imino acid transport; Proline transport; Membrane transport; (Basolateral membrane vesicle) (Davies, S. (896) 247)

Intestine
Amino acid transport; Brush-border membrane; β-Alanine carrier; (Rabbit ileum) (Andersen, V. (902) 145)

Intracellular calcium
ATPase, $(Ca^{2+} + Mg^{2+})$-; Cholinergic stimulation; (Rat acini) (Brown, G.R. (902) 87)

Intracellular ion concentration
Hyperosmolar solution; Ion transport; Epithelial cell; Cell isolation; Small intestine; (Guinea-pig) (Del Castillo, J.R. (901) 201)

Membrane potential; Membrane permeability; Electrophysiology; Monocyte; Lymphocyte; Neutrophil; Macrophage; (Human blood) (Ince, C. (905) 195)

Intracellular potential
ATPase, $(Na^+ + K^+)$-; Potassium-free solution; Short-circuit current; Voltage clamp technique; Microelectrode technique; Ion pulse technique; (Bullfrog cornea) (Carrasquer, G. (900) 258)

Intracellular processing
Cholesterol esterification; Acyl-CoA : cholesterol acyltransferase; Acid sterol ester hydrolase; (Human fibroblasts) (Slotte, J.P. (917) 231)

Intravenous fat emulsion
Triacylglycerol metabolism; Lipoprotein lipase; Phosphatidylcholine molecular species; Chylomicron (Clark, S.B. (920) 37)

Intrinsic activation complex
Coagulation factor; Factor IX; Factor X; Phospholipid vesicle (Burri, B.J. (923) 176)

Intrinsic fluorescence
Hemoglobin; Fluorescence; Front face fluorometry; Quaternary structure; (Carp) (Hirsch, R.E. (914) 213)

Inulinase
β-Fructofuranosidase; (*A. niger*) (Uhm, T.-B. (926) 119)

Inverse substrate
Acyl enzyme; Active site; Topography; Enzyme kinetics; Reporter group; Fluorescent; Trypsin (Tanizawa, K. (913) 292)

Enantiomeric specificity; Deacylation rate; Trypsin; Active site; (Enzyme kinetics) (Tanizawa, K. (916) 205)

Inverted vesicle
In vitro synthesis; PhoE protein; Protein export; Leader peptidase (De Vrije, T. (900) 63)

In vitro synthesis
PhoE protein; Protein export; Inverted vesicle; Leader peptidase (De Vrije, T. (900) 63)

In vivo inhibition
Aspartate aminotransferase; Pyridoxal enzyme; (Mouse) (Yamada, R.-h. (911) 372)

Iodination
Endothelial cell; Plasma membrane; Monoclonal antibody; Western blot; Freeze-fracture; Electron microscopy (Jaffe, S. (898) 37)

Nuclear envelope protein; Nuclear matrix; Glycoprotein; Protein kinase; (Rat liver nucleus) (Smith, P.J. (904) 365)

Radioimmunoassay; Protein structure; Peptide structure; Collagen (Davison, P.F. (926) 195)

Iodine transport
Sodium ion dependence; Electrogenic transport; Plasma membrane vesicle; (Hog thyroid gland) (O'Neill, B. (896) 263)

Iodothyronine 5′-deiodinase
Development; (Rat) (Iglesias, R. (923) 233)

Ion binding
Phospholipid membrane; Dimyristoylphosphatidylcholine; Terbium luminescence; Equilibrium dialysis; Fourier transform infrared spectroscopy; Ionotropic transition (Conti, J. (902) 53)

Ion channel
Single-channel recording; Patch clamp; Fractal model (Liebovitch, L.S. (896) 173)

Planar membrane; Bimolecular membrane; Amphotericin B (Kolomytkin, O.V. (900) 145)

Patch clamp; ATPase, H^+-; Vacuole; (Plant tonoplast) (Coyaud, L. (902) 263)

Diphtheria toxin; Vesicle; Membrane transport (Shiver, J.W. (903) 48)

Hemolysin; Voltage-dependent ion channel; Bilayer membrane; Phospholipid bilayer (Menestrina, G. (905) 109)

Basolateral membrane; Patch clamp; Calcium; Henle's loop; (Mouse kidney) (Teulon, J. (905) 125)

Calmodulin; Mutation; (*Paramecium*) (Burgess-Cassler, A. (913) 321)

Ion-exchange chromatography
Casein micelle; Casein; Cross-linking; Colloidal calcium phosphate; (Bovine milk) (Aoki, T. (911) 238)

Ionic strength
Cytochrome *c* oxidation rate; Lysine residue, modified; Reaction center; (*R. rubrum*); (*Rb. sphaeroides*) (Van der Wal, H.N. (893) 490)

ATPase, $(Na^+ + K^+)$-; Phosphatase, K^+-; pH; Buffer (Robinson, J.D. (912) 343)

EGTA; 1,2-Bis(*o*-aminophenoxy)ethane-*N,N,N′,N′*-tetraacetic acid; BAPTA; Calcium binding; Affinity constant; Calcium chelation (Harrison, S.M. (925) 133)

Ionophore A23187
Calcium metabolism; Cholecystokinin; Inositol trisphosphate; Calcium ionophore; Cytoskeleton; Chief cell; (Guinea-pig gastric mucosa) (Tsunoda, Y. (901) 35)

Calcium ion flux; Hypertension; Cobalt chloride; (Erythrocyte membrane) (Dagher, G. (903) 218)

Calcium ion transport; Calcium ion expulsion; Lysophosphatidylcholine; (Pigeon erythrocyte) (Lee, J.W. (903) 257)

cyclic AMP; Prostaglandin; Water exchange; Calcium ion, intracellular; (Frog bladder) (Parisi, M. (905) 399)

Platelet activating factor; Molecular species; Alkyl chain heterogeneity; (Human neutrophil) (Ramesha, C.S. (921) 60)

Bile acid synthesis; Calcium; dibutyryl cyclic AMP; Verapamil; Cholesterol hydroxylase; (Rat hepatocyte) (Botham, K.M. (922) 46)

Superoxide production; Divalent cation; NADPH oxidase; (Guinea-pig eosinophil) (Yamashita, T. (927) 359)

Ionophore, gated
Bacterial growth rate; Metabolic uncoupling; Substrate limitation; Membrane conductance; (*Rb. capsulatus*) (Taylor, M.A. (891) 242)

Ionotropic transition
Ion binding; Phospholipid membrane; Dimyristoylphosphatidylcholine; Terbium luminescence; Equilibrium dialysis; Fourier transform infrared spectroscopy (Conti, J. (902) 53)

Ion permeability
Planar lipid membrane; Iturin A; Tyrosine; Methylation; Conducting pore (Maget-Dana, R. (898) 1)

Local anesthetic; Sarcoplasmic reticulum; Light scattering; (Rabbit skeletal muscle) (Escudero, B. (902) 374)

Ion pulse technique
ATPase, $(Na^+ + K^+)$-; Potassium-free solution; Intracellular potential; Short-circuit current; Voltage clamp technique; Microelectrode technique; (Bullfrog cornea) (Carrasquer, G. (900) 258)

Ion selective electrode
Plasma membrane; ATPase; Syringomycin; Potassium ion efflux; (*R. pilimanae*, Maize callus cell) (Reidl, H.H. (898) 59)

Gramicidin S; Membrane permeability; Membrane–protein interaction; Structure-activity relationship; Phase transition (Katsu, T. (899) 159)

Ion transport
Lidocaine; Anesthetic–membrane interaction; Brush-border membrane vesicle; (Rabbit kidney) (Schell, R.E. (896) 256)

Electrochemical potential; Fluorescence; Plasma membrane; (*S. cerevisiae*) (Calahorra, M. (899) 229)

Intracellular ion concentration; Hyperosmolar solution; Epithelial cell; Cell isolation; Small intestine; (Guinea-pig) (Del Castillo, J.R. (901) 201)

Sodium ion transport; Sodium pump, second; Epithelial cell; Small intestine; (Guinea-pig) (Del Castillo, J.R. (901) 209)

Hydrophobic ion; Lipid bilayer; Membrane capacitance (Braun, H.P. (903) 292)

Phospholipid bilayer; Detergent; Light-scattering; NMR (Ueno, M. (904) 140)

Cyclic nucleotide; Prostaglandin; Calmodulin antagonist; Calcium antagonist; TMB-8; (Dog tracheal epithelium) (Rangachari, P.K. (905) 311)

Toxin–membrane interaction; Morphological alteration; Cyanobacterial toxin; (*M. aeruginosa*) (Eriksson, J.E. (930) 304)

Iron
Calcium ion efflux; Pyridine nucleotides oxidation; Hydrogen peroxide metabolism; (Rat liver mitochondria) (Masini, A. (891) 150)

Iron absorption
Iron binding; Free fatty acid; Brush-border membrane; (Rabbit intestine) (Simpson, R.J. (898) 181)

Hypoxia; (Mouse duodenum) (Raja, K.B. (901) 52)

Iron binding
Free fatty acid; Iron absorption; Brush-border membrane; (Rabbit intestine) (Simpson, R.J. (898) 181)

Iron deficiency
Cytochrome; Heart function; Substrate difference; (Mitochondria) (Macdonald, V.W. (891) 103)

Iron(II)
XANES; Porphyrin complex; Heme protein (Fe–C–O) geometry; Bond angle (Ascone, I. (915) 168)

Iron(III) reduction
Myoglobin oxidation kinetics; Copper(II) reduction; Electron transport (Hegetschweiler, K. (912) 384)

Iron mobilization
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Iron overload
Thalassemia; Chelator; Iron mobilization; Ferritin; Transferrin (Kontoghiorghes, G.J. (924) 13)

Ferritin; Hemosiderin; Mössbauer spectroscopy; (Reindeer) (Dickson, D.P.E. (924) 442)

Ferritin; Hemosiderin; Mössbauer spectroscopy (St. Pierre, T.G. (924) 447)

Iron-quinone
Photosynthesis; Photosynthetic reaction centre; Quinone; (*Rps. viridis*) (Evans, M.C.W. (894) 524)

Photosystem II; Oxygen evolution; ESR; Signal II; Cytochrome *b*-559 (Nugent, J.H.A. (894) 534)

Iron-sulfur center
Photosystem I; Radiation inactivation; P-700; (Spinach, *P. sativum*) (Nugent, J.H.A. (890) 160)

Photosystem I; ESR; (Spinach chloroplast) (Ikegami, I. (893) 517)

Photosystem I; P-700; Plastocyanin; Electron transfer; ESR; (Pea chloroplast) (Bottin, H. (894) 39)

Iron-sulfur cluster
Hydrogenase; Nickel center; ESR; (*D. gigas*) (Cammack, R. (912) 98)

Hydrogenase, soluble; Thermophilic enzyme; Enzyme purification; ESR; (*A. flavidum*) (Schindler, F. (913) 81)

Rieske protein; ESR; Spin lattice relaxation rate; (*T. thermophilus*) (Bertrand, P. (916) 24)

Iron-sulfur protein
Mitochondrial enzyme; Ubiquinol-cytochrome *c* reductase; EPR; Phospholipid interaction; (Bovine heart) (Gwak, S.H. (890) 319)

Photosystem I; ESR; P-700; Triplet; (Spinach subchloroplast particle) (Warden, J.T. (891) 286)

Electron transport; Primary electron donor; Triplet formation; Bacterial photosynthesis; (*H. chlorum*) (Smit, H.W.J. (893) 232)

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Iron transport
Free fatty acid; Liposome; Brush-border membrane; (Rabbit intestine) (Simpson, R.J. (898) 187)

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Endo-β-1,4-glucanase; Cellulase; Mercury; Copper; (*S. commune*) (Clarke, A.J. (916) 213)

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Oxidative phosphorylation; Lipid peroxidation; Electron transport; (Rat liver mitochondria) (Nishida, T. (890) 82)

Arachidonic acid; Prostaglandin; (Rat heart myocyte) (Hohl, C.M. (921) 356)

Calcium flux; ADP; Reperfusion; (Mitochondrion) (Lochner, A. (927) 8)

Isobutylmethylxanthine
Calcium ionophore; Bicarbonate secretion; Chloride absorption; Anion transport; cAMP; (Turtle bladder) (Ehrenspeck, G. (900) 56)

Isoelectric focusing
Glyoxalase II purification; Chemical modification; Enzyme kinetics; (Rat liver, brain) (Principato, G.B. (911) 349)

Albumin; Genetic variant; Amino acid sequence; Point mutation; (Human serum) (Minchiotti, L. (916) 411)

Phycoerythrin; Fluorescence; Energy transfer; (*Chroomonas* sp. CS24) (Hiller, R.G. (923) 98)

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Surface charge density; Mitochondrial membrane; Mitoplast; Submitochondrial particle; (Potato) (Petit, P.X. (890) 377)

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Isoenzyme
Cytochrome *c* oxidase; Mitochondrial myopathy; (Human heart; Skeletal muscle) (Sinjorgo, K.M.C. (890) 144)

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Malate dehydrogenase purification; Amino acid sequence, N-terminal; Glucose inactivation; (*S. cerevisiae*) (Kopetzki, E. (912) 398)

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Myeloperoxidase; (Human neutrophil) (Wright, J. (915) 68)

Glycogen phosphorylase; Enzyme kinetics; Peptide mapping; (Rat heart) (Berndt, N. (915) 217)

Isoenzyme expression
Glutathione *S*-transferase; Immunochemistry; Quaternary structure; (Human) (Hirrell, P.A. (915) 371)

Isoflurane elimination
Anesthetic; ^{19}F-NMR; (Rabbit brain) (Wyrwicz, A.M. (927) 86)

Isomerization, *trans-gauche*
Ripple; Phosphatidylcholine; Phase transition; Cholesterol effect; Freeze-fracture electron microscopy (Hicks, A. (903) 177)

Isopentenyl pyrophosphate isomerase
Terpenoid synthesis; Geranylgeranyl pyrophosphate synthase; Prenyltransferase; (*Capsicum* chromoplast) (Dogbo, O. (920) 140)

Isoproterenol
Protein synthesis; Cell cycle; (Parotid gland) (López-Solís, R.O. (930) 463)

EDTA; Adenylate cyclase; ADPribosylation; (Myocardium) (Morris, S.A. (9311) 234)

Isoschizomeric restriction endonuclease
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Isotherm
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Isotope dilution
Intermediate transfer; Kinetic analysis; Triosephosphate converting enzyme; Enzyme kinetics (Orosz, F. (915) 53)

Isotope labeling
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Isozyme
Creatine kinase; Mitochondrion; (Pig, Rabbit heart) (Marcillat, O. (890) 233)

Myosin light chain kinase; Antibody (De Lanerolle, P. (914) 74)

Aspartate aminotransferase; β-Methylene-DL-aspartate; Kinetics; pH dependence; Microassay; (Rat) (Parli, J.A. (925) 175)

Glutathione *S*-transferase; Benign prostatic hypertrophy; (Human prostate) (Tew, K.D. (926) 8)

Isozyme processing
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Lipase, human milk
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Lithium dodecyl sulfate
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Lithium ion
NMR, ^{31}P-; Infrared; Calcium ion; Phosphatidylserine (Casal, H.L. (919) 275)

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Lithium-sodium ion countertransport
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Lipid vesicle; Drug targeting; Asialoglycoprotein receptor; Pharmacokinetics (Dragsten, P.R. (926) 270)

Liver lipase
Immunoinhibition; Proteolysis; Protein modification; Phospholipase A_1; Triacylglycerol hydrolase (Persoon, N.L.M. (917) 186)

Liver metabolism
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Liver perfusion
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Liver regeneration
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L-Threonine metabolism; Amino acid degradation (Tabucchi, A. (926) 177)

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Ion permeability; Sarcoplasmic reticulum; Light scattering; (Rabbit skeletal muscle) (Escudero, B. (902) 374)

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Long chain fatty acid
Chromaffin granule; Phospholipase A; Lysophospholipase; Lysophospholipid; (Bovine adrenal medulla) (Husebye, E.S. (920) 120)

Long-term delayed luminescence
Fluorescence; Chlorophyll spectrum; Spectrophotometry; (*S. obliquus*) (Schmidt, W. (890) 15)

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DNA; Nuclease S1 digestion; Superhelical torsion; (Moloney murine leukemia virus) (Kimura, T. (908) 285)

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Firefly luciferase; Sodium deoxycholate; Phosphatidylcholine; Enzyme kinetics; Protein-lipid complex (Ugarova, N.N. (921) 465)

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Lung surfactant
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Adenosine; ATP; Purinergic system; Phosphatidylcholine secretion; (Rat type II cell) (Gilfillan, A.M. (917) 18)

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Surfactant associated glycoprotein; Lamellar body; Type II cell; Lung development; (Fetal rabbit) (Snyder, J.M. (920) 226)

Phospholipase A_2; Phosphatidylcholine, disaturated; (Rabbit lung) (Scott, J.E. (921) 75)

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Type II cell; Functional differentiation; Cell culture; Phospholipid metabolism; (Rat lung) (Shannon, J.M. (931) 143)

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Membrane potential; Intracellular ion concentration; Membrane permeability; Electrophysiology; Monocyte; Neutrophil; Macrophage; (Human blood) (Ince, C. (905) 195)

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Cytochrome *c* oxidation rate; Ionic strength; Reaction center; (*R. rubrum*); (*Rb. sphaeroides*) (Van der Wal, H.N. (893) 490)

Lysine transport
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Lyso-PAF
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Lysophosphatidylcholine
Electrofusion; Membrane fusion; Membrane fluidity; Proteinase K; ESR; (Carrot protoplast) (Nea, L.J. (897) 293)

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Lysophosphatidylethanolamine
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Lysophosphatidylserine
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Lysophospholipase
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Lysophospholipase A
Cationic amphiphilic drug; Lysophospholipid micelle; Drug–lipid interaction; (Rat brain) (Leli, U. (918) 126)

Lysophospholipase D
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Chromaffin granule; Phospholipase A; Lysophospholipase; Long chain fatty acid; (Bovine adrenal medulla) (Husebye, E.S. (920) 120)

Acyl transferase; Phospholipid metabolism; (Dog heart microsome) (Reddy, P.V. (922) 379)

Lysophospholipid micelle
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Lysoplasmenylethanolamine
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α_2-Macroglobulin
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Macrophage
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Leukotriene D_4; Leukotriene metabolism; Neutrophil; Lymphocyte; (Rat) (Nagaoka, I. (922) 8)

Macrophage polykaryon
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Macrophage recognition
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Magnetic circular dichroism
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Iron-sulfur protein; Fe-S cluster structure; EPR; Ferredoxin (Johnson, M.K. (911) 81)

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ESR; Primaquine; Chloroquine; Oxidant stress; Nitroxide; Spin label; (*P. berghei*) (Deslauriers, R. (931) 267)

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Malate dehydrogenase purification
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Anesthetic–membrane interaction; Calcium permeability; Sarcoplasmic reticulum; Halothane; Dantrolene; (Pig muscle) (Ohnishi, S.T. (897) 261)

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Malignant transformation
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Fatty acid oxidation; Carnitine palmitoyltransferase kinetics; Decanoyl-CoA; (Rat heart mitochondria) (Fiol, C.J. (916) 482)

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Maltohexaose transport
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α-Amylase; Subsite binding energy; Catalytic site; Nitrophenylmaltoside; (Porcine pancreas) (Seigner, C. (913) 200)

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Maltose transport
Maltohexaose transport; Outer membrane; Maltoporin; LamB protein; (*E. coli*) (Ferenci, T. (896) 319)

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Band 3 protein; Anion channel protein; Phosphorylation; Cation dependence; Protein kinase effector; Magnesium ion effect; (Human erythrocyte membrane) (Vasseur, C. (899) 1)

Manganese ion transport
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NMR, ^{13}C; 5-*S*-Cysteinyldopa; Pheomelanin, ^{13}C-labeled (Chedekel, M.R. (912) 239)

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Melittin
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Phospholipid bilayer; EPR; Lipid–protein interaction; Fluorescence quenching; Energy transfer (Schulze, J. (901) 101)

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Potassium ion channel; Macrophage polykaryon; Electrophysiology (Persechini, P.M. (899) 213)

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Membrane anchoring
Sucrase-isomaltase; Maltase-glucoamylase; Phylogenetics; (Chicken intestine) (Hu, C.-b. (896) 275)

Membrane anisotropy
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Membrane association
Muscular dystrophy; Cholesterol; Muscle fiber specificity; (Mouse skeletal muscle) (Kuhn, D.E. (921) 13)

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Membrane biogenesis
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Methotrexate transport
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Methylthioadenosine phosphorylase
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Mevalonate-5-diphosphate decarboxylase
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Microtubule stability
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Lysozyme; Active site; (Human) (Muraki, M. (916) 66)

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Inositol phosphate; Sodium; Lithium; Calcium; α-Adrenergic receptor; (Hamster brown adipose tissue) (Nånberg, E. (930) 438)

Nordeoxyguanosine
Gancyclovir HSV-1 thymidine kinase; Antiviral activity; Stereospecificity (Karkas, J.D. (911) 127)

Novel heme
Catalase; Spectral property; Protoheme; (Spinach) (Hirasawa, M. (911) 37)

Nuclear basic protein
Scylliorhinine Z1; Protamine; Sperm chromatin; Amino acid sequence; (Dogfish) (Chevaillier, P. (914) 19)

Nuclear envelope
Fatty acid; Diacylglycerol acyltransferase; Acyl-CoA synthetase; Cholinephosphotransferase; (Rabbit neuron) (Baker, R.R. (920) 285)

Nuclear envelope protein
Nuclear matrix; Glycoprotein; Protein kinase; Iodination; (Rat liver nucleus) (Smith, P.J. (904) 365)

Nuclear magnetic resonance
Membrane-active polypeptide; δ-Haemolysin; Dodecylphosphocholine micelle (Lee, K.H. (911) 144)

Nuclear matrix
Nuclear envelope protein; Glycoprotein; Protein kinase; Iodination; (Rat liver nucleus) (Smith, P.J. (904) 365)

DNA replication; Plasmid DNA; Simian virus 40; Productive infection; (Monkey kidney cell) (Jones, C. (910) 52)

Nuclear membrane
Sphingomyelin; Plasma membrane; Membrane asymmetry; (Chicken erythrocyte) (Allan, D. (897) 355)

Liposome; Coated vesicle; Fluorescence; (Mouse liver) (Lawaczeck, R. (903) 123)

Nuclear Overhauser effect
Local anesthetic; Anesthetic; Lipid bilayer; NMR, ^{1}H- (Kuroda, Y. (903) 395)

Hemoglobin, adult; Quaternary structure; Subunit interface; NMR; (Human) (Russu, I.M. (914) 40)

Bilirubin; Cholate micelle; NMR, ^{1}H-; Bile salt (Puranam, K.L. (922) 67)

Nuclear protein
Histone glycation; Ultraviolet absorbance spectroscopy; Browning reaction (De Bellis, D. (926) 365)

Thyrotropin; Thyroid; Methionine incorporation; (Calf thyroid) (Cooper, E. (927) 26)

Protein phosphorylation; Protein kinase; Histone; Non-histone chromosome protein; (*Chironomus*) (Holst, M. (931) 224)

Nuclease
Alkaline nuclease; Herpes simplex virus (Hafner, J. (910) 72)

Alkaline nuclease; Herpes simplex virus; Temperature sensitive mutant (Hafner, J. (910) 85)

Nuclease digestion
Nucleosome core; Neutron scattering; Circular dichroism; (*P. polycephalum*) (Stone, G.R. (908) 34)

Chromatin; Histone H1; Circular dichroism; (Sea urchim sperm) (Puigdomenech, P. (908) 70)

Nuclease S1 digestion
Long terminal repeat; DNA; Superhelical torsion; (Moloney murine leukemia virus) (Kimura, T. (908) 285)

Nuclease-sensitive site
Chromatin; α-Fetoprotein gene; Albumin gene; Transcription; DNA methylation (Parnaik, V.K. (910) 27)

Nucleation
Magnesium ion; Microtubule; Tubulin (Martin, S.R. (914) 96)

Nucleic acid property
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Nucleobase metabolism
Nucleobase transport; (Human erythrocyte) (Plagemann, P.G.W. (905) 17)

Nucleobase transport
Nucleobase metabolism; (Human erythrocyte) (Plagemann, P.G.W. (905) 17)

Nucleoid
Bacterial protein; Chromatin; DNA-binding protein; RNA-binding protein; (*E. coli*) (Holck, A. (908) 188)

Nucleophilic competition
Cholinesterase; Kinetics; Arrhenius plot; Enzyme inhibition; Conformational change (Ferro, A. (916) 193)

Nucleoside-diphosphate kinase
Binding protein activation; GTP-binding protein; Phosphate transfer; (Ehrlich ascites) (Ohtsuki, K. (929) 231)

Nucleoside non-mediated permeation
Nucleoside transport; Adenine transport; (Mosquito) (Abidi, T.F. (897) 431)

Nucleoside transport
Adenine transport; Nucleoside non-mediated permeation; (Mosquito) (Abidi, T.F. (897) 431)

Sugar transport; Transport inhibitor; Kinetics; Red cell membrane; (Human erythrocyte) (Plagemann, P.G.W. (899) 295)

Glycoprotein; Kinetic property; Nitrobenzylthioinosine; (Pig erythrocyte) (Woffendin, C. (903) 18)

Ca^{2+}-channel antagonist; (Mammalian cell) (Plagemann, P.G.W. (928) 243)

Nucleoside transporter
Protein purification; Reconstitution experiment; Photoaffinity labeling; (Pig erythrocyte) (Kwong, F.Y.P. (904) 105)

Nucleoside-triphosphatase
Thiamin triphosphate; Thiamin-triphosphatase; Thiamin-diphosphate kinase (Nishimune, T. (923) 74)

Nucleoside-triphosphate pyrophosphatase
Pyrophosphate formation; (Rabbit cartilage) (Caswell, A.M. (924) 276)

Nucleosome
Chromatin structure; Histone variant; Development (Rowland, R.D. (908) 169)

High mobility group protein; Thermal denaturation; Fluorescence label; (Calf thymus) (Štros, M. (910) 163)

Nucleosome core
Nuclease digestion; Neutron scattering; Circular dichroism; (*P. polycephalum*) (Stone, G.R. (908) 34)

5-Nucleotidase
Plasma membrane; Hepatocytes (Baron, M.D. (927) 81)

Nucleotide
ATPase, F_1-; 2(8)-AzidoAT(D)P; Photoaffinity labeling; Cooperative catalytic site; Tightly bound nucleotide (Van Dongen, M.B.M. (893) 22)

Cell activation; ATP; Purinergic site; Lymphocyte (El-Moatassim, C. (927) 437)

Nucleotide analog
Fluorescence probe; Nucleotide binding; ATPase, F_1-; High affinity binding site (Weber, J. (892) 30)

Nucleotide binding
ATPase; ATP synthesis; Coupling factor; Thylakoid membrane; (Spinach chloroplasts) (Schumann, J. (890) 326)

Fluorescence probe; Nucleotide analog; ATPase, F_1-; High affinity binding site (Weber, J. (892) 30)

Nucleotide distribution
Transcription; Initiation site; Termination site; mRNA sequence (Nussinov, R. (908) 143)

Nucleotide pool
Adenylate cyclase mutant; Metabolic regulation; Ascorbic acid; (*N. crassa*) (Dumbrava, V.-A. (926) 331)

Nucleotide sequence
Neurofilament gene; Exon-intron organization; Cloning; Cosmid library; (Human DNA) (Julien, J.-P. (909) 10)

cDNA cloning; β_s-Crystallin; (Carp lens) (Chang, T. (910) 89)

Fibronectin gene; Homology analysis; Computer analysis; Electron microscopy; (Chicken) (Kubomura, S. (910) 171)

Nucleotide sequencing
rRNA terminus; Recombinant DNA; S1 nuclease mapping; (Sea urchin) (Ho, K.-C. (909) 156)

Nucleotide sugar
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Nutrition
Fatty acid metabolism; Peroxisome; Beta oxidation; $(n-3)$ Fatty acid; (Fish oil diet) (Yamazaki, R.K. (920) 62)

Fatty acid oxidation; Omega oxidation; Beta oxidation; (Rat liver) (Nilsson, A. (920) 114)

Retinyl ester; LDL; Vitamin A transport; (Dog) (Wilson, D.E. (922) 247)

Nutritional regulation
Lipoprotein lipase; mRNA; Monoclonal antibody; (Chicken gene, Rabbit reticulocyte) (Strieleman, P.J. (908) 268)

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Octadecenoic acid
Fatty acid metabolism; Lipogenic enzyme; (Mouse liver) (Emken, E.A. (919) 111)

trans-Octadecenoic acid
Acyl-CoA; Fatty acid distribution; Acyltransferase; (Rat liver and heart) (Masuzawa, Y. (919) 297)

Octopamine receptor
cyclic AMP; Taurine; Guanidinoethanesulfonic acid; (Cockcroach) (Hayakawa, Y. (929) 117)

Octopine dehydrogenase
Ligand binding; Small angle X-ray scattering; Tertiary structure; Conformational change (Thomé, F. (915) 342)

Octylglucopyranoside
Octyl glucoside; Cotransporter; Glucose uptake; (Intestinal vesicle) (Vincenzini, M.T. (903) 273)

Octyl glucoside
Octylglucopyranoside; Cotransporter; Glucose uptake; (Intestinal vesicle) (Vincenzini, M.T. (903) 273)

Base exchange; Membrane reaggregation; Divalent cation; (Rat brain microsome) (Corazzi, L. (903) 277)

Ocular prophylaxis
Liposome; Prophylaxis; Enzyme entrapment; Miosis; Acetylcholinesterase (Shek, P.N. (902) 229)

Odorant-evoked current
Olfactory mucosa; Voltage clamp; Ouabain; Amiloride; Furosemide; (Bullfrog) (Persaud, K.C. (902) 65)

Oil/water distribution coefficient
Ascorbic acid; Dehydro-L-ascorbic acid; Solubility (Rose, R.C. (924) 254)

Oil/water interface
Artificial photosynthesis; Chlorophyll; Photooxidation of water; Oxygen photoevolution (Kandelaki, M.D. (893) 170)

Oleic acid
Calcium uptake; Membrane fluidity; Fatty acid; Brush-border membrane (Merrill, A.R. (896) 89)

NMR; Phase equilibrium; Phase diagram; Lysophosphatidylcholine; Amphiphile (Brentel, I. (904) 401)

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Oleoyl-CoA
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***N*-Oleylethanolamine**
Phospholipid bilayer; *N*-Acylethanolamine–membrane interaction; Polarization ratio; Phase transition; Parinaric acid; Myocardial infarct; (Canine heart) (Epps, D.E. (903) 533)

Olfactory mucosa
Voltage clamp; Odorant-evoked current; Ouabain; Amiloride; Furosemide; (Bullfrog) (Persaud, K.C. (902) 65)

Oligomeric stability
Site directed mutagenesis; Lactate dehydrogenase; Protein engineering; Allosteric regulation; (Bacteria) (Clarke, A.R. (913) 72)

Oligomerization
Excitation-energy transfer; Light-harvesting chlorophyll-protein complex; Lipid; Photosynthesis; (*C. reinhardtii*) (Maroc, J. (893) 91)

Oligomycin stimulation
Submitochondrial particle; ATP synthesis; Luciferase method; Adenine nucleotide; (Yeast) (Lundin, M. (890) 279)

Oligonucleotide
Isoschizomeric restriction endonuclease; Restriction endonuclease; ssDNA cleavage; Secondary structure (Reckmann, B. (908) 90)

Oligosaccharide
Agglutinin–saccharide interaction; Glycoprotein; Fluorescence; (Wheat germ) (Gatellier, P. (916) 428)

Glycoprotein catabolism; Endoglycosidase; Storage oligosaccharide; β-Mannosidase deficiency; (Goat) (Hancock, L.W. (928) 13)

Oligosaccharide processing
Vesicular stomatitis virus; Glycoprotein; Transformation; Rous sarcoma virus; (BHK cells) (Hunt, L.A. (924) 175)

Omega oxidation
Fatty acid oxidation; Beta oxidation; Nutrition; (Rat liver) (Nilsson, A. (920) 114)

Omeprazole
ATPase, $(H^+ + K^+)$; Proton transport; Acid secretion; (Pig stomach) (Lorentzon, P. (897) 41)

Oncogene expression
Cell cycle inhibition; Protooncogene; c-*fos*; c-*myc*; (Rat lymphoma cell line) (Andrews, G.K. (909) 231)

Opiate receptor
Radiation inactivation; Ligand binding; Receptor characterization (Glasel, J.A. (930) 201)

Opioid peptide
Peptide metabolism; Aminopeptidase M; (Cerebral vasculature) (Churchill, L. (923) 35)

Opsonized zymosan
Protein synthesis; Cell activation; (Human eosinophil) (Ramesh, K.S. (923) 241)

Optical birefringence
Phosphatidylcholine; Liposome; Pretransition (Mishima, K. (898) 231)

Optical resolution
Bacteriorhodopsin; 5,6-Epoxyretinal; Proton pumping; Chiral discrimination (Hiraki, K. (891) 177)

Optical spectra simulation
Reaction center; Exciton model; Special-pair triplet state; (*Rb. sphaeroides, C. aurantiacus*) (Scherer, P.O.J. (891) 157)

Order parameter
Anesthetic–membrane interaction; *n*-Alkanol; Phospholipid bilayer; Cholesterol; Moment; NMR, ^{2}H-; Differential scanning calorimetry (Thewalt, J.L. (905) 329)

ATPase, $(Na^+ + K^+)$-; Tryptophan fluorescence; Magnesium; Lipid–protein interaction (Amler, E. (905) 376)

Order profile
NMR, ^{2}H-; Membrane lipid; Ether lipid; Bacterial membrane; Palmitic acid; (*C. butyricum*) (Johnston, N.C. (899) 302)

ORG-2058
Progesterone receptor; Antiprogestin; RU38486; Chromatin-receptor binding (Geier, A. (931) 78)

Organelle turnover
Diethylhexyl phthalate; Cytochrome oxidase; Mitochondrial half-life; (Rat liver) (Nair, N. (925) 332)

Organic anion transport
Sulfobromophthalein uptake; Bilitranslocase; Spectrophotometry; (Isolated rat hepatocyte) (Persico, M. (930) 129)

Organic mercurial
Mercuric chloride ; Calcium; Cytosolic calcium; Cell injury; Endoplasmic reticulum; (Rabbit renal tubular cells) (Smith, M.W. (931) 130)

Organic solvent
Lipase; Transesterification; Enzyme kinetics; Reaction selectivity (Deleuze, H. (911) 117)

Organomercurial
Phosphoglycerate kinase; Enzyme modification; (Rabbit muscle) (Bunni, M.A. (923) 421)

Organ specificity
LDL receptor; Lipoprotein catabolism; Estrogen induction; (Rat) (Rudling, M.J. (919) 175)

Oriented film
Purple membrane; Bacteriorhodopsin; Photopotential; Dark potential difference (Kononenko, A.A. (892) 56)

Ornithine decarboxylase
Antizyme; Ribosomal protein; Polyarginine; (*E. coli*) (Kashiwagi, K. (911) 180)

Putrescine; Spermidine; Polyamine oxidase; Polyamine reutilization (Bolkenius, F.N. (923) 125)

Substrate specificity; Refeeding; (Rat intestine) (Baer, A.R. (924) 257)

Casein kinase-2; Phosphorylation (Meggio, F. (929) 114)

Acetyltransferase; Dexamethasone; Spermidine acetylation; (Rat spleen) (Stefanelli, C. (930) 79)

Orotate phosphoribosyltransferase
Enzyme kinetics; NMR, ^{31}P-; Thio analog; Sulfhydryl group; (Yeast) (Tavares, A. (913) 279)

Orthogonal array
Sarcolemmal vesicle; Polypeptide; Freeze-fracture; Concanavalin A binding site (Hatton, J.D. (904) 373)

Orthophosphate
Yeast; Phosphate; Polyphosphate; pH, vacuolar; NMR, ^{31}P-; (*S. cerevisiae*) (Greenfield, N.J. (926) 205)

Osmolarity
Exocytosis; Cell permeabilization; (Chromaffin cell) (Ladona, M.G. (927) 18)

Osmosis
Glucose transport; Water transport; Inhibition; Membrane; (Rabbit corneal endothelium) (Fischbarg, J. (898) 266)

Osmotic fragility
Protein phosphorylation; Filterability; Membrane protein; (Mouse erythrocyte) (Yuthavong, Y. (929) 278)

Osmotic pressure
Liposome; Reflection coefficient; Membrane permeability; Membrane pore (MacDonald, R.C. (905) 320)

Osteocalcin
γ-Carboxyglutamic acid; Bone; (Frog) (Dohi, Y. (915) 378)

Ototoxicity
Multilamellar liposome; Liposome; Carboxyfluorescein; Membrane permeability; Aminoglycoside antibiotic; Phosphatidylinositol bisphosphate; Anionic phospholipid (Au, S. (902) 80)

Ouabain
Hydrochlorothiazide; Sodium/chloride cotransport; Sodium–calcium exchange; Distal convoluted tubule (Ziyadeh, F.N. (897) 52)

Plasma membrane; Protein domain; ATPase, $(Na^+ + K^+)$; (Calf thymocyte) (Szamel, M. (899) 247)

Olfactory mucosa; Voltage clamp; Odorant-evoked current; Amiloride; Furosemide; (Bullfrog) (Persaud, K.C. (902) 65)

Taurocholate uptake; Sodium dependence; Membrane potential; L-Alanine; Cholic acid; Gramicidin; (Rat hepatocyte) (Bear, C.E. (903) 388)

Furosemide; Sodium/potassium/chloride cotransport; Hyperosmolarity; Primary culture; (Rat astrocyte) (Tas, P.W.L. (903) 411)

Outer membrane
Maltose transport; Maltohexaose transport; Maltoporin; LamB protein; (*E. coli*) (Ferenci, T. (896) 319)

Cholinephosphotransferase; Mitochondria; Endoplasmic reticulum; (Guinea-pig lung) (Sikpi, M.O. (899) 35)

Heat stress; Protein translocation; Bilayer organization; Membrane lipid (Yatvin, M.B. (901) 147)

Outer membrane channel
VDAC; Voltage-dependent anion channel; Polyanion; (Mitochondrion) (Colombini, M. (905) 279)

Ovalbumin
Soybean agglutinin; Glycoprotein binding; NMR, ^{13}C (Berman, E. (924) 403)

Ovomucoid
Radiation inactivation; Molecular size; Trypsin inhibitor; Domain size (Kume, T. (914) 101)

Oxidant pulse experiments
Protonmotive stoichiometry; Rate/pulse method; Cytochrome *c* oxidase; Cytochrome *c* reductase; (Rat liver mitochondria) (Moody, A.J. (894) 209)

Oxidant stress
Malaria; ESR; Primaquine; Chloroquine; Nitroxide; Spin label; (*P. berghei*) (Deslauriers, R. (931) 267)

Oxidase activation
Actin polymerization; (Rat neutrophil) (Al-Mohanna, F.A. (927) 366)

Oxidase inhibition
Nitrite reduction; Nitric oxide generation; Nitrite transport; (*P. denitrificans*) (Kučera, I. (894) 120)

Oxidation
Redox property; Hemoglobin; Kinetics; (Trout blood) (Coletta, M. (915) 415)

Tocopherol; Tocopherolquinone; Fatty acid; Superoxide; Vitamin E (Vatassery, G.T. (926) 160)

Oxidation mechanism
Oxyhemoglobin oxidation; Nitrite (Spagnuolo, C. (911) 59)

Oxidation model
α-Tocopherol; Solvent effect (Sumarno, M. (920) 247)

Oxidation-reduction
Electron-transferring flavoprotein; Flavoprotein; Redox potential; Spectroelectrochemistry; (*M. elsdenii*) (Pace, C.P. (911) 267)

Oxidative damage
Lipid oxidation; Macrophage recognition; Phagocytosis; (Erythrocyte) (Beppu, M. (930) 244)

Oxidative membrane damage
Ozone; Lipid peroxidation; Potassium ion leakage; (Erythrocyte) (Van der Zee, J. (924) 111)

Oxidative phosphorylation
Ischemia; Lipid peroxidation; Electron transport; (Rat liver mitochondria) (Nishida, T. (890) 82)

Reconstitution; ATPase, F_1; Mitochondria; (Pea) (Horak, A. (890) 302)

Acidic uncoupler; SF6847; Protonophoric potency; Structure-activity relationship (Miyoshi, H. (891) 293)

Respiration dependence; Control coefficient; Adenine nucleotide; Mitochondrion; (Epididymal bull spermatozoa) (Halangk, W. (893) 100)

Hexokinase; Glycolysis; Tumor cell; Electron microscopy; Freeze-fracture; (HT 29 cell) (Denis-Pouxviel, C. (902) 335)

Oxidizing agent
Hemoglobin S; Erythrocyte membrane; ATPase, (Ca^{2+} + Mg^{2+}); Lipid peroxidation (Leclerc, L. (897) 33)

Oxidoreductase
Free radical; ESR; Transformation (Gascoyne, P.R.C. (923) 257)

3-Oxo-5β-steroid: $NADP^+$ Δ^4-oxidoreductase
Cortisone; Androstenedione; Cortisone 5β-reductase; Androstenedione 5β-reductase (Furuebisu, M. (912) 110)

7-Oxodihydrolanosterol
Cytochrome *P*-450 inhibition; Oxosterol; Lanosterol demethylase; Electron transfer; (Yeast) (Aoyama, Y. (922) 270)

2-Oxoglutarate binding site
Prolyl 4-hydroxylase; Procollagen-proline, 2-oxoglutarate 4-dioxygenase; Photoaffinity labeling; 5-Azidopyridine-2-carboxylic acid (De Waal, A. (912) 151)

Oxoglutarate carrier
Reconstitution; Kinetics; Liposome; Mitochondrion; (Bovine heart) (Indiveri, C. (890) 310)

2-Oxoglutarate dehydrogenase complex
Pyruvate dehydrogenase complex; Binding protein-dependent transport system; (*E. coli* mutant) (Richarme, G. (893) 373)

Oxonol dye
ATPase, ($Na^+ + K^+$)-; Lipid vesicle; Membrane potential; Fluorescence (Apell, H.-J. (903) 480)

Oxosterol
Cytochrome *P*-450 inhibition; 7-Oxodihydrolanosterol; Lanosterol demethylase; Electron transfer; (Yeast) (Aoyama, Y. (922) 270)

Oxygen
Photosynthetic electron transport; Carbon dioxide; Chlorophyll fluorescence; Carbon assimilation; (*Z. mays* L.); (*T. aestivum* L.) (Ireland, C.R. (893) 434)

Oxygen-18
N-Acylethanolamine phospholipid; Ethanolamine; Acyl transfer; (Canine heart) (Schmid, P.C. (922) 398)

Oxygen activation
Bioluminescence; Flavin intermediate; Luciferase; (Bacteria) (Kurfuerst, M. (924) 104)

Oxygen binding
Hemocyanin; Lactate binding site; Binding stoichiometry; (*P. interruptus*) (Johnson, B.A. (916) 376)

Oxygen carrier
Liposome-embedded heme; Heme; Tocopherol; Catalase (Yuasa, M. (900) 160)

Polymeric liposome; Liposome clearance; Lipid label; Tissue distribution; Hemoglobin model (Matsushita, Y.-I. (901) 166)

Oxygen diffusion
Singlet oxygen; (Epithelial cell) (Nye, A.C. (928) 1)

Oxygen evolution
Photosynthesis; Water oxidation; Manganese; Photosystem II; (EPR) (Hunziker, D. (890) 6)

Photosystem II; pH effect; P-680; (*Synechococcus*) (Schlodder, E. (890) 23)

Photosystem II; ESR; S_2-state; (Spinach chloroplast) (Styring, S. (890) 32)

$P\text{-}680^+$ reduction; Calcium ion effect; Proteolysis; Photosystem II; (Spinach) (Völker, M. (890) 66)

Photosystem II; Manganese; Chloride ion effect (Hsu, B.-D. (890) 89)

S-state transition; Photosystem II; Photosynthesis; (Spinach) (Miyao, M. (890) 151)

Water-oxidizing complex; Photoactivation; Manganese (Tamura, N. (890) 179)

Chlorophyll fluorescence; Photosystem II; Fluorescence yield; Photoinhibition (Moll, B.A. (890) 205)

Photosynthesis; S-state distribution; Calcium; Chloride; (*A. nidulans*) (Pistorius, E.K. (890) 352)

Manganese; Photosystem II; EPR; X-ray absorption spectroscopy; (Spinach chloroplast) (Cole, J. (890) 395)

Photosystem II; Hydrogen peroxide; Oxygen-evolving complex (Frasch, W.D. (891) 8)

Photosystem II; Reaction center; EPR (Ghanotakis, D.F. (891) 15)

EPR; Photosystem II; pH effect; Salt effect; Electron transport; (Spinach) (Cole, J. (891) 40)

Photosystem II; Chlorophyll-protein complex; ESR Signal II; Manganese (Yamada, Y. (891) 129)

Photosystem II; Chlorophyll fluorescence; Water splitting; (Inside out thylakoid) (Delrieu, M.-J. (892) 163)

Photosystem II; Protein, 33 kDa; Chloride effect; Thermoluminescence (Vass, I. (892) 224)

Photosystem II; ESR; Manganese; ^{2}H (Nugent, J.H.A. (893) 184)

Thylakoid membrane; Protein phosphorylation; Photosystem II; Photosynthesis; Electron transport; (Chloroplast) (Packham, N.K. (893) 259)

Photosystem II; Water splitting; L-Amino acid oxidase; (*Synechococcus* sp.) (Meyer, R. (893) 426)

Mass spectrometry; S_3-state; Cyanobacterium; (*O. chalybea*) (Bader, K.P. (893) 564)

Photosystem II; Protein purification; (Spinach chloroplast) (Yamamoto, Y. (893) 579)

Photosynthesis; Photophosphorylation; Chlorophyll fluorescence; (Barley protoplast) (Furbank, R.T. (894) 332)

Photosynthesis; NMR,^{35}Cl-; Photosystem II; Cooperativity; (Spinach) (Coleman, W.J. (894) 443)

Photosynthesis; NMR, ^{35}Cl-; Chloride effect; (Mangrove thylakoid) (Preston, C. (894) 477)

Photosystem II; ESR; Signal II; Cytochrome *b*-559; Iron-quinone (Nugent, J.H.A. (894) 534)

Photosystem II; S state transition; Thermoluminescence; (Spinach chloroplast) (Koike, H. (894) 573)

Oxygen evolving complex
Photosystem II; Oxygen evolution; Hydrogen peroxide (Frasch, W.D. (891) 8)

Photosystem II; Manganese; Cytochrome *b*-559; S state transition; Spectroscopy, difference (Lavergne, J. (894) 91)

Photosystem II; Chloride binding; NMR, ^{35}Cl-; Polypeptide; (Spinach) (Coleman, W.J. (894) 453)

Oxygen free radical
Ubiquinone; Ultrasonic irradiation; Phospholipid vesicle; Free radical (Landi, L. (902) 200)

Oxygen inhibition
Inorganic carbon transport; Carbon transport; Action spectrum; (*A. nidulans* mutant) (Ogawa, T. (893) 219)

Oxygen photoevolution
Artificial photosynthesis; Chlorophyll; Oil–water interface; Photooxidation of water (Kandelaki, M.D. (893) 170)

Oxygen photoreduction
Chlorophyll fluorescence; Mass spectrometry; Amperometry; (*C. pyrenoidosa*) (Peltier, G. (894) 543)

Oxygen radical
Membrane potential; (Renal cell) (Scott, J.A. (897) 25)

Oxygen radical generation
Sulfatide; Chemiluminescence; Lipid peroxidation; Demyelination; (Leukocyte) (Chiba, T. (930) 10)

Oxygen saturation
Sickle erythrocyte; Hemoglobin; Light scattering; (Human blood) (Peetermans, J.A. (931) 320)

Oxygen uptake
Hydrogen oxidation; Succinate oxidation; Cytochrome; Chlorpromazine; (*A. vinelandii*) (Wong, T.Y. (892) 83)

Lipid metabolism; Endogenous fatty acid; Leucine analog; (Tumor islet cell) (Blachier, F. (921) 494)

Oxyhemoglobin oxidation
Nitrite; Oxidation mechanism (Spagnuolo, C. (911) 59)

Oxymyoglobin
Myoglobin; Amino acid sequence; Autoxidation; (Shark); (Sperm whale) (Suzuki, T. (914) 170)

Ozone
Aging; Lung; NADPH; $NADP^+$ (Oettmeier, W. (890) 271)

Oxidative membrane damage; Lipid peroxidation; Potassium ion leakage; (Erythrocyte) (Van der Zee, J. (924) 111)

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P-680
Oxygen evolution; Photosystem II; pH effect; (*Synechococcus*) (Schlodder, E. (890) 23)

Photosystem II; ESR; Phenylglyoxal (Csatorday, K. (890) 224)

P-700
Photosystem I; Iron-sulfur center; Radiation inactivation; (Spinach, *P. sativum*) (Nugent, J.H.A. (890) 160)

Photosystem I; ESR; Triplet; Iron-sulfur protein; (Spinach subchloroplast particle) (Warden, J.T. (891) 286)

Photosystem I; Plastocyanin; Cytochrome *f*; Absorption kinetics; Electron transfer; (Pea chloroplasts) (Bottin, H. (892) 91)

Photosystem I; Reaction center; Charge separation; EXAFS (Golbeck, J.H. (893) 149)

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Parinaric acid
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Penicillin amidase
Enzyme stability; Penicillin acylase; Poly(ethylene glycol); Solvent–solute interaction; Protein structure (Andersson, E. (912) 317)

Enzyme activity; Penicillin acylase; Poly(ethylene glycol); Solvent–solute interaction; Protein structure (Andersson, E. (912) 325)

Pentachlorophenol
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Pentachlorophenol toxicity
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Peptide degradation
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Peptide digest
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***N*-Phenyl-1-naphthylamine**
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Polyamine reutilization
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Fatty acid composition; Hypoxia; Tetrachloromethane; Serum transaminase; Glutamate dehydrogenase; (Rat liver microsome) (Frank, H. (922) 54)

Polyunsaturated fatty acid diet
Diabetes mellitus; Galactose; Glucose; Saturated fatty acid diet; Ileum; Jejunum (Thomson, A.B.R. (905) 426)

Polyunsaturated lipid
Phosphatidylcholine, mixed-acid; Model membrane; Liposome; Phase transition temperature (Keough, K.M.W. (902) 1)

Phosphatidylcholine; Phase transition; Uncooperative transition; Model membrane; Liposome (Keough, K.M.W. (902) 11)

Porcine aortic
Prostaglandin synthesis; Hydrogen peroxide; (Endothelial cell) (Barchowsky, A. (927) 372)

Porcine ileal polypeptide
Calcium release; Gastric acid secretion; Pepsinogen secretion; Parietal cell; Chief cell; (Guinea-pig gastric mucosa) (Tsunoda, Y. (905) 118)

Porin
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Porin purification
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Porphyrin
Energy transfer; Light harvesting complex; Carotenoid; Triplet state; ESR (Frank, H.A. (892) 253)

Phthalocyanine; Polylysine; Dextran; Electronic spectrum; Polylysyl-phthalocyanine (Kornguth, S.E. (924) 19)

Porphyrin complex
XANES; Iron(II); Heme protein (Fe–C–O) geometry; Bond angle (Ascone, I. (915) 168)

Porphyrin–membrane interaction
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Porphyrin retention
Metalloporphyrin; NMR; (Cancer cell) (Megnin, F. (929) 173)

Positional specificity
Substrate specificity; Lipase; Triacylglycerol; (*S. aureus*) (Rollof, J. (921) 370)

Post-proline cleaving enzyme
Prolyl endopeptidase purification; Serine proteinase; Plant enzyme; (Carrot) (Yoshimoto, T. (916) 29)

Postsynthetic modification
High mobility group protein; (Rat liver); (Tumor cell) (Alexandrova, E.A. (915) 399)

Post-transcriptional regulation
Poly(A)$^+$ RNA; RNA polymerase II; Poly(A) polymerase; Germination; Host–pathogen interaction; (Wheat) (Lakhani, S. (910) 189)

Posttranslational processing
Surfactant associated protein-35; Sulfation; Complex type oligosaccharide (Weaver, T.E. (914) 205)

Potassium channel
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Calcium dependence; Inside-out vesicle; Channel counting; (Human red blood cell) (Alvarez, J. (903) 543)

Erythrocyte membrane; Membrane skeleton; Surface viscosity; Elasticity; Calcium ion, intracellular; Lateral diffusion; (Human erythrocyte) (Shields, M. (905) 181)

Potassium-free solution
ATPase, $(Na^+ + K^+)$-; Intracellular potential; Short-circuit current; Voltage clamp technique; Microelectrode technique; Ion pulse technique; (Bullfrog cornea) (Carrasquer, G. (900) 258)

Potassium gradient
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Potassium ion channel
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Calcium ion-activated K^+ current; Noise analysis; Single-channel; conductance; (*Aplysia*) (Hartung, K. (897) 201)

Electrophysiology; Membrane fragment; Calcium ion activation; Magnesium ion activation; (Mouse parotid acinar cells) (Squire, L.G. (899) 171)

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Potassium ion conductance
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Potassium ion effect
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Potassium ion efflux
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Potassium ion leakage
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Potassium ion level
Phorbol ester; Dopamine release; Nicardipine; Calcium channel; (PC12 cell) (Takashima, A. (930) 264)

Potassium ion permeability
Potassium ion effect; Membrane potential; Electrogenic transport; internal pH; (*Bacillus*) (Koyama, N. (898) 293)

Potassium ion transport
Cotransport, Na^+/K^+; Calcium ion permeability; (Human erythrocyte) (Dagher, G. (899) 313)

Potassium permeability
Alkalophilic bacterium; Bacterium; Membrane permeability; Membrane potential; Sodium dependence; (*Bacillus*) (Matsukura, H. (904) 301)

Potassium/proton antiport
pH, intracellular; Base transport; pH regulation; Proton transport; (*C. fusca*) (Tromballa, H.-W. (904) 216)

Potential-sensitive dye
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P-700 oxidation
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Protein phosphatase I; Enzyme phosphorylation; Enzyme–substrate interaction; Inhibitor (Johansen, J.W. (928) 63)

P_2 protein
Circular dichroism; NMR; Secondary structure; Tertiary structure (Shin, H.-C. (913) 155)

Prasinophyceae
Chlorophyll *c* purification; Pheoporphyrin derivate; Spectroscopy (Wilhelm, C. (892) 23)

Precursor synthesis
Cell free translation; Acid α-glucosidase; α-Glucosidase; Glycogenosis type II; (Human fibroblast) (Van der Horst, G.T.J. (910) 123)

P-680$^+$ reduction
Oxygen evolution; Calcium ion effect; Proteolysis; Photosystem II; (Spinach) (Völker, M. (890) 66)

Preferential association
Apocytochrome *c*; Small unilamellar vesicle; Tryptophan fluorescence; Brominated phospholipid; Protein penetration (Berkhout, T.A. (897) 1)

Pregastric lipase
Lipid digestion; Gastric lipolysis; Proteinase sensitivity; (Human) (Bernbäck, S. (922) 206)

Pregnancy
LDL receptor; Cholesterol level; (Rabbit serum) (Shiomi, M. (917) 92)

Transcortin; Glycoprotein; Carbohydrate structure; Serum level; (Human) (Avvakumov, G.V. (925) 11)

Pregnancy zone protein
Endocytosis; Proteinase; α_2-Macroglobulin receptor; (Rat macrophage) (Moestrup, S.K. (930) 297)

Pregnenolone
Androstadienol; 16α-Hydrogen removal; Stereospecificity; Steroid synthesis; (Pig testis microsome) (Kohara, H. (921) 90)

Prenyltransferase
Terpenoid synthesis; Geranylgeranyl pyrophosphate synthase; Isopentenyl pyrophosphate isomerase; (*Capsicum* chromoplast) (Dogbo, O. (920) 140)

Pressure
α-Chymotrypsin; Pre-steady-state kinetics; Anilide hydrolysis (Makimoto, S. (914) 303)

Pressure effect
Reaction center; Electron transfer; Bacterial photosynthesis; (*Rb. sphaeroides* R-26, *Rps. viridis*) (Hoganson, C.W. (892) 275)

Pressure inactivation
Malate dehydrogenase; Glyceraldehyde-3-phosphate dehydrogenase; Hydrostatic pressure; Proteolytic inactivation (Hennessey, Jr., J.P. (913) 285)

Pre-steady-state kinetics
Ubiquinone-10; QH_2 : cytochrome *c* oxidoreductase; Rapid freeze; Rapid chemical quench; Reversed phase HPLC (Van Hoek, A.N. (892) 152)

α-Chymotrypsin; Pressure; Anilide hydrolysis (Makimoto, S. (914) 303)

Presynaptic neurotoxin
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Prethrombin
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Pretransition
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n-Alcohol; Dipalmitoylphosphatidylcholine; Interdigitation; Spectrophotometry (Veiro, J.A. (900) 230)

Primaquine
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Primary culture
Furosemide; Sodium/potassium/chloride cotransport; Ouabain; Hyperosmolarity; (Rat astrocyte) (Tas, P.W.L. (903) 411)

Primary donor
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Primary electron donor
Electron transport; Iron-sulfur protein; Triplet formation; Bacterial photosynthesis; (*H. chlorum*) (Smit, H.W.J. (893) 232)

Bacterial photosynthesis; Reaction center; Recombination kinetics; Temperature dependence; (*Rps. viridis*) (Shopes, R.J. (893) 409)

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Manganese; Superoxide dismutase; Amino acid sequence; (*T. thermophilus*) (Sato, S. (912) 178)

Secretory component; Tryptic cleavage site; Amino acid sequence homology; Binding domain; (Bovine) (Beale, D. (912) 365)

Proapolipoprotein
Apolipoprotein A-I; Dimyristoylphosphatidylcholine; Electron microscopy; Gradient gel electrophoresis; (Hep G2 cells) (Forte, T.M. (920) 185)

Probe clustering
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Probenecid
p-Aminohippuric acid secretion; Anion exchange; Renal cortex; Membrane vesicle; (Rabbit) (Eveloff, J. (897) 474)

Procaine
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Procalpain activation
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Procollagen-proline, 2-oxoglutarate 4-dioxygenase
Prolyl 4-hydroxylase; 2-Oxoglutarate binding site; Photoaffinity labeling; 5-Azidopyridine-2-carboxylic acid (De Waal, A. (912) 151)

Productive infection
DNA replication; Plasmid DNA; Nuclear matrix; Simian virus 40; (Monkey kidney cell) (Jones, C. (910) 52)

Progesterone
Hormone metabolism; Androstanediol; Microsome; (Rat testis) (Eckstein, B. (924) 1)

Steroid-binding protein; RU38486; (Chick oviduct) (Eliezer, N. (929) 34)

Progesterone receptor
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Progestin
Lactate dehydrogenase; Breast cancer; Cell line T-47D (Hagley, R.D. (930) 167)

Prohormone structure
Renin substrate; Monoclonal antibody; Renin-angiotensin system (Moffett, R.B. (912) 1)

Prolactin
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Prolactin cell culture
Gossypol; Protein kinase C; Phorbol ester; (Mouse mammary gland) (Etindi, R.N. (927) 345)

Prolactin gene
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Prolamin
Cereal storage proteins; Immunochemistry; Amino acid sequence homology; Seed proteins (Festenstein, G.N. (912) 371)

Proline isomerization
Tryptophan synthase; Protein folding; Folding intermediate; Domain folding; (*E. coli*) (Hurle, M.R. (913) 179)

Proline precursor
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Proline transport
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Prolyl endopeptidase purification
Post-proline cleaving enzyme; Serine proteinase; Plant enzyme; (Carrot) (Yoshimoto, T. (916) 29)

Prolyl 4-hydroxylase
Procollagen-proline, 2-oxoglutarate 4-dioxygenase; 2-Oxoglutarate binding site; Photoaffinity labeling; 5-Azidopyridine-2-carboxylic acid (De Waal, A. (912) 151)

Promoter complex
RNA polymerase; DNA binding; Inhibitor; (*E. coli*) (Hofer, B. (910) 254)

Prophylaxis
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Propranolol
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Prostacyclin
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Prostacyclin-binding protein
Stabilization mechanism (Tsai, A.-l. (924) 67)

Prostaglandin
Ion transport; Cyclic nucleotide; Calmodulin antagonist; Calcium antagonist; TMB-8; (Dog tracheal epithelium) (Rangachari, P.K. (905) 311)

cyclic AMP; Water exchange; Ionophore A23187; Calcium ion, intracellular; (Frog bladder) (Parisi, M. (905) 399)

β-Carotene; α-Tocopherol; Hydroxyicosatetraenoic acid; Arachidonate oxidation (Halevy, O. (918) 304)

HDL; Apolipoprotein A_1; Lipid recombinant; Fluorescence; Sphingomyelin; (Human plasma) (Bergelson, L.D. (921) 182)

Arachidonate metabolism; Lipid hydroperoxide; Selenium deficiency; Glutathione peroxidase; (Rat aorta); (Rabbit aorta) (Funk, C.D. (921) 213)

Prostaglandin synthetase; Prostaglandin dehydrogenase; (Rat eye) (Goh, Y. (921) 302)

Arachidonic acid; Ischemia; (Rat heart myocyte) (Hohl, C.M. (921) 356)

Thromboxane; Vinblastine; Arachidonic acid metabolism; Microtubule inhibitor; (Human platelet microsome) (Maguire, M.H. (921) 426)

Arachidonic acid; Epidermal growth factor; Lipoxygenase; (Human amnion cell) (Mitchell, M.D. (928) 240)

Vasopressin; Polyphosphoinositide; (Papillary collecting duct) (Portilla, D. (928) 305)

Vitreous humor; Arachidonic acid; (Rabbit chorioretinal fibroblast) (Martin, C.E. (931) 303)

Prostaglandin analog
Platelet aggregation; Dipyridamole; *N*-Vinylpyrrolidone polymer (Bamford, C.H. (924) 38)

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Prostaglandin B
Calcium ionophore; Prostaglandin oligomer (Uribe, S. (924) 87)

Prostaglandin D_2
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Prostaglandin metabolism; Radioimmunoassay; Prostaglandin F_2; Stereospecificity; (Rat lung) (Hayashi, H. (917) 356)

Prostaglandin dehydrogenase
Prostaglandin; Prostaglandin synthetase; (Rat eye) (Goh, Y. (921) 302)

Prostaglandin D_2 receptor
β_2-Adrenoceptor agonist; (Platelet) (Hanasaki, K. (927) 261)

Prostaglandin E_2
Membrane protection; Bile salt; Spin label; ESR; (Rat); (Gastric surface cell) (Güldütuna, S. (902) 217)

Membrane fluidity; Forskolin; Glucagon; Vasopressin; cyclic AMP synthesis; (MDCK cell) (Friedlander, G. (903) 341)

Tumor promoter; Inflammation; Histamine; (Rat) (Ohuchi, K. (925) 156)

Prostaglandin E_1
C3b; Prostaglandin E_2; Thromboxane B_2; Arachidonic acid; (Human monocyte) (Nichols, F.C. (927) 149)

Prostaglandin E_2
C3b; Prostaglandin E_1; Thromboxane B_2; Arachidonic acid; (Human monocyte) (Nichols, F.C. (927) 149)

Prostaglandin endoperoxide
Eicosanoid synthesis; Arachidonic acid; (Platelet, Macrophage) (Smith, III, E.F. (923) 355)

Prostaglandin E_2 synthesis
Ultraviolet light B; Confluence; Injury; Keratinocyte; (Human epidermis) (Pentland, A.P. (919) 71)

Prostaglandin F_2
Prostaglandin metabolism; Prostaglandin D_2; Radioimmunoassay; Stereospecificity; (Rat lung) (Hayashi, H. (917) 356)

Prostaglandin G_2
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Prostaglandin metabolism
Prostaglandin D_2; Radioimmunoassay; Prostaglandin F_2; Stereospecificity; (Rat lung) (Hayashi, H. (917) 356)

Prostaglandin oligomer
Prostaglandin B; Calcium ionophore (Uribe, S. (924) 87)

Prostaglandin synthesis
Anti-inflammatory; Fenamate; Crystalline complex; Non-covalent interaction (Dhanaraj, V. (924) 135)

Microtubule disruption; Cytoskeleton; Arachidonate metabolism; Bone; (Rat osteoblast) (Yeh, C.-K. (927) 315)

Hydrogen peroxide; Porcine aortic; (Endothelial cell) (Barchowsky, A. (927) 372)

Prostaglandin synthetase
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Prostate gland
Kallikrein; Monoclonal antibody; Tonin; Submandibular gland; Arginine esterase A; (Rat) (Chao, J. (910) 233)

Prosthetic group
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Protamine
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Scylliorhinine Z1; Nuclear basic protein; Sperm chromatin; Amino acid sequence; (Dogfish) (Chevaillier, P. (914) 19)

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Protamine sulfate
Chylomicron; Lipoprotein; Heparin; Lipid emulsions; (Rat lymph, Plasma) (Hirata, M.H. (917) 344)

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Protein
Fluorescence; Fluorescence quenching; Acrylamide; Human serum albumin; Monellin (Eftink, M.R. (916) 343)

Protein adsorption
Myelin basic protein; Cytochrome *c*; Concanavalin A; Poly(L-lysine); Intermolecular force (Afshar-Rad, T. (915) 101)

Protein aggregation
Ribulose-1,5-bisphosphate carboxylase/oxygenase; Enzyme inactivation; Protein structural stability; Shear induced inactivation; (*Citrus*) (Peñarrubia, L. (916) 227)

Proteinase
Amino acid transporter; Transport protein; Sodium ion effect; (Pigeon erythrocyte membrane) (Charalambous, B.M. (903) 441)

Calcium; Tight junction; Freeze-fracture; (Adenocarcinoma cell line) (Faff, O. (905) 48)

Calcium activated neutral proteinase; (Calf brain) (Malik, M.N. (916) 135)

Prothrombin activator; (Snake venom) (Govers-Riemslag, J.W.P. (916) 388)

Plasmin; Proteinase inhibitor; (Intervertebral disc) (Melrose, J. (923) 483)

Collagenase; Gelatinase; Metalloproteinase secretion; Membrane proteinase; Metastasis; (Mouse melanoma) (Zucker, S. (924) 225)

Metalloenzyme; Mucin degradation; Glycoprotein secretion; Enterotoxin; (Rat intestine) (Crowther, R.S. (924) 393)

Substrate specificity; (Snake venom) (Yamakawa, Y. (925) 124)

Snake venom; (*V. lebetina*) (Mähar, A. (925) 272)

Calcium ion dependence; Blood coagulation; Factor V activation; (Endothelium) (Rodgers, G.M. (929) 263)

Pregnancy zone protein; Endocytosis; α_2-Macroglobulin receptor; (Rat macrophage) (Moestrup, S.K. (930) 297)

Parathyroid hormone; Peptide degradation; (Leukocyte) (Barling, P.M. (931) 1)

Proteinase activation
Glutathione; (*S. mansoni*) (Chappell, C.L. (913) 335)

Proteinase inhibitor
Vesicle release; Membrane penetrating drug; Shape change; Erythrocyte membrane; (Human erythrocyte) (Bütikofer, P. (904) 259)

Thrombin; Heparin; Antithrombin III; (Human, Bovine) (Cunningham, M.T. (911) 66)

Aprotinin; Semisynthesis; Leukocyte elastase inhibitor; Active site titrant (Tschesche, H. (913) 97)

Subtilisin inhibitor; Protein structure; Alkaline proteinase inhibitor; Plasminostreptin; Alpha helix; (*Streptomyces*) (Komiyama, T. (914) 89)

Trypsin; Methyltrypsin; Anhydrotrypsin; Active site probe; Kinetics (Magnotti Jr., R.A. (915) 46)

Bicyclic fragment; Bowman-Birk inhibitor; Antichymotrypsin; Antielastase; (Soybean) (Ando, S. (916) 527)

Proteinase; Plasmin; (Intervertebral disc) (Melrose, J. (923) 483)

Elastase; Cathepsin G; Rheumatoid arthritis; (Human articular cartilage) (Burkhardt, H. (924) 312)

Cysteine proteinase; (Rat epidermis) (Toku, S. (925) 48)

Proteinase substrate; TCDD; *Ah* receptor (Kester, J.E. (925) 109)

Calcium dependent proteinase; Sarcolemmal vesicle; (Bovine heart) (Mellgren, R.L. (930) 370)

Proteinase K
Electrofusion; Membrane fusion; Membrane fluidity; Lysophosphatidylcholine; ESR; (Carrot protoplast) (Nea, L.J. (897) 293)

Proteinase kinetics
Papain; Cysteine proteinase; pH effect; (*C. papaya* L.) (Ascenzi, P. (912) 203)

Proteinase purification
Dipeptidyl peptidase IV; (Rat liver plasma membrane) (Hartel, S. (924) 543)

Proteinase sensitivity
Pregastric lipase; Lipid digestion; Gastric lipolysis; (Human) (Bernbäck, S. (922) 206)

Proteinase substrate
Proteinase inhibitor; TCDD; *Ah* receptor (Kester, J.E. (925) 109)

Proteinase treatment
L-Triiodothyronine; Erythrocyte membrane; Heating treatment; L-Triiodothyronine binding site (Angel, R.C. (897) 488)

Glycoprotein IIIa; Glanzmann's thrombasthenia; RIA; (Human platelet membrane) (Cierniewski, C.S. (924) 216)

Protein binding
Ribosomal protein; Membrane–ribosome interaction (Kisilevsky, R. (910) 282)

Protein catabolism
Protein phosphorylation; Phospho*enol*pyruvate carboxykinase; (Yeast) (Burlini, N. (930) 220)

Protein C, immunopurification
Monoclonal antibody, conformation specific; Gla domain; Blood coagulation (Nakamura, S. (925) 85)

Protein component
Lamellar body; (Rat lung) (Nijssen , J.G. (917) 131)

Protein conformation
Monoclonal antibody; ATPase; F_1; (Pig heart mitochondria) (Moradi-Améli, M. (890) 55)

Circular dichroism; ATPase, H^+-; ATPase, F_1-; Alcohol; (Pig heart) (Guo, Y.-j. (894) 11)

Acetylcholinesterase; Enzyme conformation; Circular dichroism (Wu, C.-S.C. (911) 25)

Atropinesterase; Ultracentrifugation; Protein hydration; Dimerization (Van der Drift, A.C.M. (912) 167)

Sodium ion binding; Calcium ion binding; thermodynamics; α-Lactalbumin; Metal-binding protein (Desmet, J. (912) 211)

Eggshell; Laser Raman spectroscopy; Infrared spectroscopy; Helicoidal architecture; (Fish) (Hamodrakas, S.J. (913) 163)

NMR relaxation; Alcohol dehydrogenase; Fluorescence; Thermal transition; (Horse liver) (Wasylewski, Z. (913) 210)

Resonance Raman; Infrared spectroscopy; Toxin γ; Neurotoxin; (Scorpion) (Arêas, E.P.G. (915) 292)

Protein crosslinking
Lipid oxidation; Membrane protein; Borohydride reduction; Fluorescence; (Erythrocyte membrane) (Beppu, M. (897) 169)

Erythrocyte membrane; Cytoskeleton; Hemoglobin; Hydrogen peroxide (Shaklai, N. (915) 406)

Protein crystallization
X-ray diffraction; Anti-idiotope antibody; M315 antibody (Matsuura, Y. (916) 524)

Protein degradation
Chymostatin analog; Lysosome; (Hepatocyte) (Place, G.A. (925) 185)

Temperature dependence; Autophagic sequestration; Sugar uptake; (Rat hepatocyte) (Gordon, P.B. (929) 128)

Protein denaturation
Glyceraldehyde-3-phosphate dehydrogenase inactivation; Active site probe (Xie, G.-F. (911) 19)

Apolipoprotein B; Apolipoprotein structure; LDL; Guanidine hydrochloride (Patterson, B.W. (920) 266)

Protein-detergent interaction
Cytochrome *c* oxidase; Detergent; Kinetics (Sinjorgo, K.M.C. (893) 241)

Protein digestion
Protein sequence; α-Tubulin; Gas phase sequencer; (*Ph. polycephalum*) (Singhofer-Wowra, M. (913) 51)

Protein–DNA interaction
Repressor–operator interaction; Imino proton exchange; NMR; Tryptophan operator (Lane, A.N. (909) 58)

Protein domain
Plasma membrane; Ouabain; ATPase, $(Na^+ + K^+)$; (Calf thymocyte) (Szamel, M. (899) 247)

Protein engineering
Time resolved fluorescence; Site directed mutagenesis; Tryptophan fluorescence; Lactate dehydrogenase (Waldman, A.D.B. (913) 66)

Site directed mutagenesis; Lactate dehydrogenase; Allosteric regulation; Oligomeric stability; (Bacteria) (Clarke, A.R. (913) 72)

Pyruvate dehydrogenase complex; Domain organization; Mutagenesis, in vitro; Alanine + proline rich amino acid sequences (Miles, J.S. (913) 117)

Lactate dehydrogenase; Thermal stability; Site directed mutagenesis; Hydrophobic surface (Wigley, D.B. (916) 145)

Protein export
In vitro synthesis; PhoE protein; Inverted vesicle; Leader peptidase (De Vrije, T. (900) 63)

Protein flexibility
Cytochrome *c*; Carboxymethylation; Protein unfolding; Circular dichroism (Santucci, R. (914) 185)

Chymotrypsin; Protein water binding; Time domain reflectometry (Bone, S. (916) 128)

Protein folding
Tryptophan synthase; Proline isomerization; Folding intermediate; Domain folding; (*E. coli*) (Hurle, M.R. (913) 179)

Hydrophobic pattern; Conformational state; Secondary structure prediction (Busetta, B. (916) 54)

Protein glycosylation
Erythropoietin; DNA; Baculovirus vector; (Human); (Insect) (Wojchowski, D.M. (910) 224)

Tunicamycin; Antibiotic activity (Hashim, O.H. (923) 362)

Protein-histidine methylase
3-*N*-Methylhistidine; Actin; Myosin; (Skeletal muscle) (Vijayasarathy, C. (923) 156)

Protein hydration
Atropinesterase; Ultracentrifugation; Dimerization; Protein conformation (Van der Drift, A.C.M. (912) 167)

Protein II
Calcium binding protein; Cytoskeleton–membrane interaction; Phosphatidylserine vesicle (Shadle, P.J. (897) 502)

Protein isoform
Myosin light chain; (Rat uterine smooth muscle) (Bárány, K. (911) 369)

Protein, 33 kDa
Oxygen evolution; Photosystem II; Chloride effect; Thermoluminescence (Vass, I. (892) 224)

Protein kinase
Protein phosphorylation; Histone phosphorylation; Light modulation; (Spinach chloroplast) (Lucero, H.A. (890) 77)

Nuclear envelope protein; Nuclear matrix; Glycoprotein; Iodination; (Rat liver nucleus) (Smith, P.J. (904) 365)

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Protein kinase, calcium · calmodulin dependent
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Protein kinase, cAMP dependent
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Protein kinase inhibitor; Calcium ion; Thromboxane A_2; Dense tubular system; Membrane vesicle; (Human platelet) (Hettasch, J.M. (931) 49)

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Protein kinase inhibitor
Protein kinase, cAMP dependent; Calcium ion; Thromboxane A_2; Dense tubular system; Membrane vesicle; (Human platelet) (Hettasch, J.M. (931) 49)

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Protein phosphatase-1
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C-protein cardiac; Phosphoprotein phosphatase; Cardiac myofibril; Protein kinase, cAMP-dependent (Schlender, K.K. (928) 312)

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Histone phosphorylation; Light modulation; Protein kinase; (Spinach chloroplast) (Lucero, H.A. (890) 77)

Thylakoid membrane; Photosystem II; Oxygen evolution; Photosynthesis; Electron transport; (Chloroplast) (Packham, N.K. (893) 259)

Chlorophyll fluorescence lifetime; Excitation energy transfer; Photosynthesis; State transition; (*C. pyrenoidosa*) (Hodges, M. (893) 480)

Light harvesting complex; Membrane dynamics; Photosystem II; Thylakoid membrane; (Spinach chloroplast) (Larsson, U.K. (894) 59)

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Phospho*enol*pyruvate carboxykinase; Protein catabolism; (Yeast) (Burlini, N. (930) 220)

Protein kinase; Nuclear protein; Histone; Non-histone chromosome protein; (*Chironomus*) (Holst, M. (931) 224)

Protein kinase C; High mobility group protein; (Rat brain) (Palvimo, J. (931) 376)

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Protein purification
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Biotin binding protein; Immunological crossreactivity; Ligand binding; (Pregnant rat); (Chicken egg yolk) (Seshagiri, P.B. (916) 474)

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Protein release
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Protein secretion
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20β-Hydroxysteroid dehydrogenase denaturation; Intermediate state; Fluorescence spectroscopy; Circular dichroism (Vecchio, G. (914) 122)

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Protein translocation
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Protein transport
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Protein unfolding
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Cytochrome *c*; Carboxymethylation; Circular dichroism; Protein flexibility (Santucci, R. (914) 185)

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Protein water binding
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ATPase, $(H^+ + K^+)$-; Cation transport; (Pig gastric mucosa) (Skrabanja, A.T.P. (903) 434)

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Calcium pump; Inside-out vesicle; Vanadate; Conformational change; Phosphorylation; (Red cell membrane) (Sarkadi, B. (899) 129)

Liver lipase; Immunoinhibition; Protein modification; Phospholipase A_1; Triacylglycerol hydrolase (Persoon, N.L.M. (917) 186)

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Proton diffusion
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Proton electrochemical gradient
Cytochrome *o*; Proteoliposome; (*G. suboxydans*) (Matsushita, K. (894) 304)

Proton flux
ATP synthase; Liposome (Brune, A. (893) 499)

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ATP synthesis; Coupling factor; Membrane reconstitution (Schmidt, G. (890) 392)

Chloroplast coupling factor; ATPase activation; 9-Aminoacridine; ATP synthesis; (Lettuce and spinach thylakoid) (Biaudet, P. (893) 544)

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Bacteriorhodopsin; Purple membrane; Fluorescence energy transfer; Membrane protein conformation; (*H. halobium*) (Renthal, R. (897) 384)

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Proton pump, electrofenic; ATPase, Mg^{2+}-stimulated; 8-Azido-ATP inhibition; Chloride effect; (Lysosome) (Cuppoletti, J. (899) 276)

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Protoporphyrin IX
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Brush-border membrane; Glycine transport; Chloride dependence; Sodium dependence; (Porcine kidney) (Scalera, V. (903) 1)

Pseudogene
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Lipid fluidity; Neuraminidase; Sialic acid; Diphenylhexatriene; Fluorescence; (Porcine intestinal brush-border membrane) (Ohyashiki, T. (905) 57)

1-Pyrenedecanoic acid
Lipid storage myopathy; Triacylglycerol; Fluorescence; (Fibroblast) (Radom, J. (920) 131)

Pyrene excimer
Fusion kinetics; Melittin; Fusion assay; Phospholipid vesicle (Bradrick, T.D. (905) 494)

Pyrethroid
Heart stimulant; Pumiliotoxin; Phorbol ester; Phosphatidylinositol turnover; Protein kinase C (Daly, J.W. (930) 470)

Pyridine nucleotides oxidation
Iron; Calcium ion efflux; Hydrogen peroxide metabolism; (Rat liver mitochondria) (Masini, A. (891) 150)

Pyridinoline
Deoxypyridinoline; Collagen crosslink; Collagen maturation; (Rat femur) (Robins, S.P. (914) 233)

Pyridoxal enzyme
Aspartate aminotransferase; In vivo inhibition; (Mouse) (Yamada, R.-h. (911) 372)

Pyridoxal 5′-phosphate
NMR, ^{31}P-; Aspartate aminotransferase; (Chicken heart) (Korpela, T. (915) 299)

Pyridoxal phosphate enzyme
Cystathionine γ-lyase; Substrate specificity; Replacement reaction; Elimination reaction; (*S. phaeochromogenes*) (Kanzaki, H. (913) 45)

Pyrimidine metabolism
Uridine phosphorylase; Thymidine phosphorylase; (Human lymphoid cell) (Pérignon, J.-L. (928) 130)

Pyrimidine starvation
Adenosine; Adenine ribonucleotide; Phosphoribosylpyrophosphate; (Human lymphoid cell) (Van der Kraan, P.M. (927) 213)

Pyrophosphatase, H^+-
Photophosphorylation inhibition; ATPase, H^+-; Diethylstilbestrol; (*R. rubrum*) (Strid, Å. (892) 236)

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Pyrophosphate
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Pyrophosphate formation
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Pyrophosphate–fructose-6-phosphate 1-phosphotransferase
Pyrophosphate; Sucrose synthesis; (Spinach) (Weiner, H. (893) 13)

Pyruvate dehydrogenase complex
2-Oxoglutarate dehydrogenase complex; Binding protein-dependent transport system; (*E. coli* mutant) (Richarme, G. (893) 373)

Domain organization; Mutagenesis, in vitro; Protein engineering; Alanine + proline rich amino acid sequences (Miles, J.S. (913) 117)

Antibody reaction; (*Ascaris*) (Matuda, S. (926) 54)

Pyruvate kinase
Adenine nucleotide; Creatine kinase; Compartmentation; Computer simulation; (Rat heart mitochondria) (Gellerich, F.N. (890) 117)

Chemical modification; Enzyme activity; Sulfhydryl group; (Rat liver) (Rafter, G.W. (913) 195)

Pyruvate metabolism
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Pyruvate, orthophosphate dikinase
Adenylate energy charge; Phosphate-dependent activation; ADP-dependent inactivation (Nakamoto, H. (924) 360)

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Q_{400}
Electron spin resonance; Photosystem II; Quinone-iron acceptor complex; Reduction-induced oxidation; Benzoquinone (Petrouleas, V. (893) 126)

Q_B acceptor
Photosystem II; Quinone reconstitution; Thermoluminescence; Thylakoid; (Spinach) (Wydrzynski, T. (893) 33)

Q-cycle
Photosystem I; Cytochrome *bf* complex; Plastoquinone; Electron transfer kinetics (Rich, P.R. (892) 138)

Tumor mitochondrion; Superoxide radical; Cytochrome bc_1; Ubisemiquinone; Spin-trapping (Konstantinov, A.A. (894) 1)

Cytochrome *bf*; Cytochrome bc_1 complex; Cytochrome *b*-563; Electron transport; (Pea chloroplast) (Moss, D.A. (894) 189)

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Quasi-elastic light scattering
Zymogen granule; Granule aggregation; Stabilization factor; Secretion; (Rat pancreas) (Rogers, J. (897) 217)

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ATPase, F_1-; Chemical modification; Beta subunit; Catalytic site; (Bovine heart mitochondria) (Nieboer, P. (894) 277)

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Quinidine
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Reaction center; Electron transfer; Transition metal; Photosynthesis; (*Rb. sphaeroides*) (Agalidis, I. (890) 242)

Photosystem I; Electron spin resonance; Electron acceptor; Deuterium oxide; (Pea); (*P. sativum*) (Mansfield, R.W. (894) 515)

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Quinone-iron acceptor complex
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Electron spin resonance; Photosystem II; Fe(III); Reduction-induced oxidation; Herbicide inhibitor (Diner, B.A. (893) 138)

Quinone reconstitution
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Radiation injury
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Radical interaction
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Magnetic-field effect; Photosystem I; Triplet yield; Photosynthesis; (Bacterium) (Brettel, K. (893) 109)

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Radical pair recombination
Exciton trapping; Photosystem II; Fluorescence lifetime; Pheophytin photoaccumulation; (Spinach) (Eckert, H.-J. (893) 208)

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Radioimmunoassay
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Polymyxin B; Dipalmitoylphosphatidylglycerol; Fourier transform infrared spectroscopy; X-ray diffraction (Babin, Y. (903) 78)

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Ubiquinone-10; QH_2 : cytochrome *c* oxidoreductase; Pre-steady-state kinetics; Rapid freeze; Reversed phase HPLC (Van Hoek, A.N. (892) 152)

Rapid filtration method
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Rapid freeze
Ubiquinone-10; QH_2 : cytochrome *c* oxidoreductase; Pre-steady-state kinetics; Rapid chemical quench; Reversed phase HPLC (Van Hoek, A.N. (892) 152)

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***ras*-oncogene**
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Reaction center
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Quinone; Electron transfer; Transition metal; Photosynthesis; (*Rb. sphaeroides*) (Agalidis, I. (890) 242)

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Bacterial photosynthesis; Radical-pair decay; Magnetic-field effect; (*Rb. sphaeroides*) (Lersch, W. (891) 265)

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Cytochrome *c*; Photosynthesis; Purple bacterium; Thermophilic chromatiaceae; (*Chromatium tepidum*) (Garcia, D. (894) 379)

NMR, ^1H-; Carotenoid; Resonance Raman; Stereoisomerism; (*Rb. sphaeroides*) (Lutz, M. (894) 423)

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α_1-Adrenergic receptor; Receptor affinity (Fratelli, M. (930) 87)

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Glutamine synthetase; Carbamoylphosphate synthetase; Gene expression; (Rat liver) (De Groot, C.J. (908) 231)

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ATPase, $(Ca^{2+} + Mg^{2+})$-; Calcium ion transport; Phospholipid; Sarcoplasmic reticulum; (Rabbit muscle) (Gould, G.W. (904) 36)

ATPase, $(Ca^{2+} + Mg^{2+})$-; Calcium ion efflux; Phospholipid; Sarcoplasmic reticulum; (Rabbit) (Gould, G.W. (904) 45)

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Electron spin resonance; Photosystem II; Quinone-iron acceptor complex; Fe(III); Herbicide inhibitor (Diner, B.A. (893) 138)

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Refsum's disease
Phytanic acid; Alpha oxidation; Peroxisomal disorder; Subcellular localization; (Rat liver) (Skjeldal, O.H. (921) 38)

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Renin substrate; Monoclonal antibody; Prohormone structure (Moffett, R.B. (912) 1)

Renin-binding protein
Renin; Angiotensinogen; Ultracentrifugation (Poulsen, K. (923) 310)

Renin substrate
Monoclonal antibody; Prohormone structure; Renin-angiotensin system (Moffett, R.B. (912) 1)

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Reaction center; NMR, ^{1}H-; Carotenoid; Stereoisomerism; (*Rb. sphaeroides*) (Lutz, M. (894) 423)

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Infrared spectroscopy; Toxin γ; Protein conformation; Neurotoxin; (Scorpion) (Arêas, E.P.G. (915) 292)

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Respiratory chain
Flavoprotein; NADH : quinone reductase; Subunit composition; Sodium ion transport; (Marine bacterium, *V. alginolyticus*) (Hayashi, M. (890) 47)

Glucagon; Cytochrome bc_1 complex; NADH dehydrogenase; Lipid peroxidation; (Rat) (Halestrap, A.P. (927) 280)

Respiratory control
Liver mitochondria; Rhodamine B (Koretsky, A.P. (893) 398)

Respiratory electron flow
State 1/State 2; Photosynthesis; Plastoquinone pool; Cytochrome oxidase; (*A. nidulans*) (Dominy, P.J. (892) 264)

Resting cell
Malic acid transport; Anaerobic growth; (*S. cerevisiae*) (Salmon, J.M. (901) 30)

Restriction endonuclease
Isoschizomeric restriction endonuclease; ssDNA cleavage; Oligonucleotide; Secondary structure (Reckmann, B. (908) 90)

Restriction-modification enzyme
Methylcytosine; *Pvu*II isoschizomer; Methylated base (Butkus, V. (909) 201)

Retinal analogue
Bacteriorhodopsin; Photocycle; Electrogenic transport; Black lipid membrane (Fendler, K. (893) 60)

Retinoic acid
Cellular retinoic acid-binding protein; Cellular retinol-binding protein; Retinol; (Human placenta) (Okuno, M. (923) 116)

Retinoic acid metabolism
Cell differentiation; Airway epithelial cell; (Rabbit) (Bhat, P.V. (922) 18)

Retinoid distribution
3,3′,4,4′,5,5′-Hexabromobiphenyl; Acyl-CoA : retinol acyltransferase (Jensen, R.K. (926) 310)

Retinol
Cellular retinoic acid-binding protein; Cellular retinol-binding protein; Retinoic acid; (Human placenta) (Okuno, M. (923) 116)

Retinol-binding protein
Retinol transfer; Unilamellar liposome; Liposome; (Human protein) (Fex, G. (901) 255)

Retinol transfer
Unilamellar liposome; Liposome; Retinol-binding protein; (Human protein) (Fex, G. (901) 255)

Retinyl ester
LDL; Vitamin A transport; Nutrition; (Dog) (Wilson, D.E. (922) 247)

Vitamin A; Vitamin E; (Retinal pigment) (Katz, M.L. (924) 432)

Reversed phase HPLC
Ubiquinone-10; QH_2 : cytochrome *c* oxidoreductase; Pre-steady-state kinetics; Rapid freeze; Rapid chemical quench (Van Hoek, A.N. (892) 152)

Leukotriene B_4; Metabolic pathway; (Human polymorphonuclear leukocyte) (Kaever, V. (922) 337)

Reversed respiration
NADH formation, bacterial; Nitrogen fixation; Nitrate reduction; (*Azotobacter*) (Häger, K.-P. (892) 213)

Reverse enzyme synthesis
Water-in-oil emulsion; Microemulsion; Ester synthesis; Lipase (Fletcher, P.D.I. (912) 278)

Reverse transcription
Peroxisomal protein; cDNA cloning; Catalase; Amino acid sequence; (*C. tropicalis*) (Rachubinski, R.A. (909) 35)

Rheumatoid arthritis
Myeloperoxidase; D-Penicillamine; Compound III; Inhibition (Cuperus, R.A. (912) 124)

Proteinase inhibitor; Elastase; Cathepsin G; (Human articular cartilage) (Burkhardt, H. (924) 312)

Rhizoxin
Tubulin; Maytansine; Mitotic inhibitor; Vinblastine (Takahashi, M. (926) 215)

Rhodamine B
Respiratory control; Liver mitochondria (Koretsky, A.P. (893) 398)

Rhodamine 6G
ATPase inhibition, H^+; Ethidium bromide; (Yeast mitochondria) (Wieker, H.-J. (892) 108)

Rhodanese
Chemical modification; Enzyme inactivation; Sulfhydryl group; Tetrathionate (Prasad, A.R.S. (911) 102)

Rhodanese domain structure
Domain structure; Eosin; Phosphorescence; Protein tertiary structure (Koloczek, H. (916) 236)

Rhodophyta
Bromoperoxidase; Vanadium; Prosthetic group; *(C. Rubrum)* (Krenn, B.E. (912) 287)

Riboflavin carrier protein
Serum; Chromatography, fast protein liquid; Immunochemistry; (Chicken egg-white); (Pregnant monkey) (Visweswariah, S.S. (915) 141)

Ribonuclease
Estrogen receptor; Monoclonal antibody (Giambiagi, N.A. (931) 87)

Ribonuclease A
RNAase A; Guanidine denaturation; Conformational change; (Bovine pancreas) (Liu, W. (916) 455)

RNAase A; Reactivation kinetics; Guanidine denaturation; (Bovine pancreas) (Liu, W. (916) 465)

Ribosomal gene
Core promoter; RNA polymerase I; Transcription initiation; (Rat rDNA) (Cassidy, B. (909) 133)

Ribosomal peptidyltransferase
Catalytic rate constant; Puromycin reaction; formylmethionyl-tRNA; Initiation; (*E. coli*) (Synetos, D. (923) 275)

Ribosomal protein
Elongation factor; Gene arrangement; Gene expression; (*S. platensis*) (Tiboni, O. (908) 113)

Heat shock; Ribosome synthesis; Protein phosphorylation; (Plant cell culture) (Scharf, K.-D. (909) 44)

Multigene family; Pseudogene; Molecular structure; (Rat liver DNA) (Kuzumaki, T. (909) 99)

Elongation factor 2; Binding site; Cross-linking; (Rat liver) (Nygård, O. (910) 245)

Membrane–ribosome interaction; Protein binding (Kisilevsky, R. (910) 282)

Ornithine decarboxylase; Antizyme; Polyarginine; (*E. coli*) (Kashiwagi, K. (911) 180)

Tertiary structure; NMR, ^1H-; Proteolytic resistance; (*E. coli*) (Littlechild, J. (913) 245)

Ribosomal site
Nonsense codon; Protein synthesis; Release factor; Translation termination (Buckingham, K. (909) 92)

Ribosomal subunit conformation
Eukaryotic ribosome; Yeast ribosome; Ribosomal subunit interaction; Tritium exchange (Lee, J.C. (908) 109)

Ribosomal subunit interaction
Eukaryotic ribosome; Yeast ribosome; Tritium exchange; Ribosomal subunit conformation (Lee, J.C. (908) 109)

Ribosome
Mitochondrial ribosome; Var1 protein; Temperature-conditional mutant; rRNA; *(S. cerevisiae)* (Hibbs, A.R. (908) 179)

Ribosome inactivation
Ricin A-chain; Cibacron blue F3GA; Dye–protein interaction; Polynucleotide binding site (Watanabe, K. (914) 177)

Ribosome synthesis
Heat shock; Ribosomal protein; Protein phosphorylation; (Plant cell culture) (Scharf, K.-D. (909) 44)

Vitellogenesis; RNA turnover; (*A. aegypti*) (Hotchkin, P.G. (924) 352)

Ribulose-1,5-bisphosphate carboxylase
Metabolite–enzyme interaction; Benson-Calvin cycle; (Spinach) (Foyer, C.H. (894) 157)

Metabolite–enzyme interaction; Photophosphorylation; Benson-Calvin cycle; (Spinach) (Furbank, R.T. (894) 165)

Ribulose-1,5-bisphosphate carboxylase/oxygenase
Enzyme inactivation; Protein aggregation; Protein structural stability; Shear induced inactivation; (*Citrus*) (Peñarrubia, L. (916) 227)

Ribulose-bisphosphate carboxylase
ESR; Cobaltous ion; Metabolic intermediate; (Spinach) (Brändén, R. (916) 298)

Ricin
Deglycosylation; Glycosidase (Foxwell, B.M.J. (923) 59)

Ricin A-chain
Cibacron blue F3GA; Dye–protein interaction; Polynucleotide binding site; Ribosome inactivation (Watanabe, K. (914) 177)

Ricin E B-chain
Gene recombination; (*R. communis* lectin) (Araki, T. (911) 191)

Rieske iron-sulfur protein
Cytochrome, *c*-type; Mutant; Cytochrome bc_1 complex; Genetic analysis; (*Rb. capsulatus* MT113) (Davidson, E. (890) 292)

Radiation inactivation; Cytochrome *bf* complex; Chloroplast membrane; Electron transfer; (*P. sativum*) (Nugent, J.H.A. (893) 177)

Rieske protein
Iron-sulfur cluster; ESR; Spin lattice relaxation rate; (*T. thermophilus*) (Bertrand, P. (916) 24)

Right-side-out liposome
Bacteriorhodopsin; Reconstitution; Protonmotive force (Driessen, A.J.M. (891) 165)

Ripple
Phosphatidylcholine; Phase transition; Cholesterol effect; Freeze-fracture electron microscopy; Isomerization, *trans-gauche* (Hicks, A. (903) 177)

RNA
RNA polymerase; Sigma release; Ternary complex; Stable ternary complex; Photocrosslinking; (*E. coli*) (Osumi-Davis, P.A. (910) 130)

Phosphoglycerol-ATP; Actinomycin D; Adenylate; Uridylate; (Rat heart) (Heyworth, P.G. (927) 158)

RNA binding
SS-B/La antigen; RNA–protein linkage (Thomas, L. (909) 173)

RNA-binding protein
Nucleoid; Bacterial protein; Chromatin; DNA-binding protein; (*E. coli*) (Holck, A. (908) 188)

RNA gene, 5 S
Chromatin; Type III gene; DNAase I sensitivity; (*X. laevis*) (Hoyle, H.D. (908) 224)

RNA–metal interaction
tRNA derivative; Thallium (Baindur, S.R. (923) 66)

RNA polymerase
Transcription rate; Inhibition; (*T. pyriformis*) (Andersen, H.A. (908) 1)

Sigma release; Ternary complex; Stable ternary complex; RNA; Photocrosslinking; (*E. coli*) (Osumi-Davis, P.A. (910) 130)

DNA binding; Promoter complex; Inhibitor; (*E. coli*) (Hofer, B. (910) 254)

RNA polymerase I
Core promoter; Ribosomal gene; Transcription initiation; (Rat rDNA) (Cassidy, B. (909) 133)

RNA polymerase II
Post-transcriptional regulation; Poly(A)$^+$ RNA; Poly(A) polymerase; Germination; Host–pathogen interaction; (Wheat) (Lakhani, S. (910) 189)

RNA polymerase III
tRNA gene; $tRNA^{Val}$; Tandem repeat gene; Transcription (Peterson, R.C. (908) 81)

RNA polymerase transcription
DNA-dependent RNA polymerase; Circular dichroism; Guanosine 3′-diphosphate 5′-diphosphate (ppGpp); (*E. coli*) (Woody, A.-Y.M. (909) 115)

RNA–protein linkage
SS-B/La antigen; RNA binding (Thomas, L. (909) 173)

RNA turnover
Ribosome synthesis; Vitellogenesis; (*A. aegypti*) (Hotchkin, P.G. (924) 352)

dsRNA
Nucleic acid property; dsDNA; viral RNA; Electron microscopy (Lang, D. (910) 271)

formylmethionyl-tRNA
Ribosomal peptidyltransferase; Catalytic rate constant; Puromycin reaction; Initiation; (*E. coli*) (Synetos, D. (923) 275)

mRNA
Gene expression; Metallothionein; Heavy metal exposure; 5-Azacytidine; (Rainbow trout hepatoma cells; Chinook salmon embryo cells) (Price-Haughey, J. (908) 158)

Cell-free translation; Basement membrane; Collagen; Laminin; Entactin; (Engelbreth-Holm-Swarm tumor, Mouse) (Laurent, M. (908) 241)

Lipoprotein lipase; Monoclonal antibody; Nutritional regulation; (Chicken gene, Rabbit reticulocyte) (Strieleman, P.J. (908) 268)

α2u-Globulin; Length polymorphism; cDNA clone; Sequence heterogeneity; Noncoding region; (Rat liver) (Ichiyoshi, Y. (910) 43)

Splice signal; Computer model; Lariat structure; Consensus sequence; (Primate DNA) (Nussinov, R. (910) 261)

Collagen synthesis; Interleukin-1; (Skin fibroblast) (Kähäri, V.-M. (929) 142)

mRNA level
Insulin; Dexamethasone; Serum; Insulin receptor; (Human lymphoblast) (Maassen, J.A. (930) 72)

mRNA sequence
Nucleotide distribution; Transcription; Initiation site; Termination site (Nussinov, R. (908) 143)

mRNA translation
Lipogenic enzyme; Aging; Malic enzyme; Dietary fat; Triiodothyronine; (Rat liver) (Fukuda, H. (921) 43)

rRNA
Mitochondrial ribosome; Var1 protein; Ribosome; Temperature-conditional mutant; *(S. cerevisiae)* (Hibbs, A.R. (908) 179)

rRNA, 5 S
Elongation factor; Binding site; EF2-ribosome complex; (Rat liver) (Nygård, O. (908) 46)

rRNA terminus
Recombinant DNA; S1 nuclease mapping; Nucleotide sequencing; (Sea urchin) (Ho, K.-C. (909) 156)

$tRNA^{Val}$
tRNA gene; Tandem repeat gene; RNA polymerase III; Transcription (Peterson, R.C. (908) 81)

Tryptophanyl-tRNA synthetase; Tryptophan–tRNA ligase; Binding stoichiometry; Fluorescence quenching; Chemical modification; (Bovine pancreas) (Fournier, M. (916) 350)

tRNA derivative
Thallium; RNA–metal interaction (Baindur, S.R. (923) 66)

tRNA gene
$tRNA^{Val}$; Tandem repeat gene; RNA polymerase III; Transcription (Peterson, R.C. (908) 81)

viral RNA
Nucleic acid property; dsDNA; dsRNA; Electron microscopy (Lang, D. (910) 271)

RNAase
X-ray refinement analysis; Hydrogen bonding; Active site volume accessibility (Harris, G.W. (912) 348)

RNAase A
Ribonuclease A; Guanidine denaturation; Conformational change; (Bovine pancreas) (Liu, W. (916) 455)

Ribonuclease A; Reactivation kinetics; Guanidine denaturation; (Bovine pancreas) (Liu, W. (916) 465)

hnRNP
Splicing; Intervening sequence; Lariat; Major late transcription unit; (Adenovirus-2) (Gerst, C. (908) 251)

Rod outer segment
Phosphodiesterase; G-protein; Divalent cation; Reassociation (Miller, J.L. (898) 81)

Rod outer segment membrane
Glycoprotein; Gold label; Electron microscopy; Western blot; (Bovine retina) (Molday, L.L. (897) 335)

Rotational catalysis
F_1 ATPase; ATPase crosslinking; ATPase conformation; (*E. coli*) (Kandpal, R.P. (890) 97)

Rouleau (aggregate) formation
Fibrinogen; Fibrinogen degradation product; Sialic acid; Aggregation; (Human erythrocyte) (Maeda, N. (904) 81)

Rous sarcoma virus
Vesicular stomatitis virus; Glycoprotein; Transformation; Oligosaccharide processing; (BHK cells) (Hunt, L.A. (924) 175)

Phosphatidylinositol kinase; Phosphorylation; Transformation; Protein kinase; (Rat fibroblast) (Tones, M.A. (931) 165)

RU38486
Steroid-binding protein; Progesterone; (Chick oviduct) (Eliezer, N. (929) 34)

Progesterone receptor; Antiprogestin; ORG-2058; Chromatin-receptor binding (Geier, A. (931) 78)

Rubidium occlusion
ATPase, $(Na^+ + K^+)$-; Cation binding; (Pig kidney) (Shani, M. (904) 13)

Rubredoxin
Metalloprotein; Charge transfer; Magnetic circular dichroism; Low temperature; Fe-S cluster (Bennett, D.E. (911) 71)

Ruthenium red effect
Calcium ion transport; Manganese ion transport; (*S. cerevisiae*) (Van der Pal, R.H.M. (902) 19)

Ryanodine
Calcium ion transport; Sarcoplasmic reticulum; (Canine heart) (Alderson, B.H. (900) 221)

Rye
Trypsin inhibitor; α-Amylase inhibitor; Amino acid sequence; Homology; (*S. cereale*) (Lyons, A. (915) 305)

S

Saccharide binding
Fourier transform infrared spectroscopy; Concanavalin A; Metal ion (Alvarez, J. (916) 5)

Safflower oil
Insulin action; Lipid synthesis, Triacylglycerol secretion; Fish oil; Dietary adaption; (Rat liver) (Topping, D.L. (927) 423)

Salt effect
Oxygen evolution; EPR; Photosystem II; pH effect; Electron transport; (Spinach) (Cole, J. (891) 40)

Salt-tolerant yeast
Lipid composition; Phospholipid; Sterol; (*Debaryomyces*) (Tunblad-Johansson, I. (921) 116)

Saponin
Calcium ion permeability, passive; Sodium-calcium ion exchange; Sarcolemmal vesicle; Calcium ion transport; (Canine heart) (Yamasaki, Y. (897) 481)

Sarcolemma
Membrane vesicle; Malignant hyperthermia; Calcium ion transport; Skeletal muscle (Mickelson, J.R. (897) 364)

ATPase, Ca^{2+}-; Cardiomyopathy; Calcium ion transport; (Rat heart) (Kuo, T.H. (900) 10)

Sodium–calcium ion exchange; Electrogenic process; Vascular smooth muscle; Liposome; (Rat) (Matlib, M.A. (904) 145)

Sarcolemmal membrane
Sodium–calcium ion exchange; Calcium ion permeability; Doxylstearic acid (Philipson, K.D. (897) 152)

Sodium-calcium ion exchange; Peripheral protein; ATPase, ($Na^+ + K^+$); Freeze-fracture electron microscopy; (Dog ventricle) (Philipson, K.D. (899) 59)

Sarcolemmal vesicle
Saponin; Calcium ion permeability, passive; Sodium-calcium ion exchange; Calcium ion transport; (Canine heart) (Yamasaki, Y. (897) 481)

Sodium–calcium ion exchange; (Tracheal smooth muscle) (Slaughter, R.S. (904) 92)

Polypeptide; Orthogonal array; Freeze-fracture; Concanavalin A binding site (Hatton, J.D. (904) 373)

Calcium dependent proteinase; Proteinase inhibitor; (Bovine heart) (Mellgren, R.L. (930) 370)

Sarcoplasmic reticulum
ATPase, Ca^{2+}; Membrane crystal (Varga, S. (896) 187)

ATPase, ($Ca^{2+} + Mg^{2+}$); ATP binding site; Fluorescein isothiocyanate; Fluorescence energy transfer; (Rabbit muscle) (Gutierrez-Merino, C. (897) 207)

Anesthetic–membrane interaction; Calcium permeability; Malignant hyperthermia; Halothane; Dantrolene; (Pig muscle) (Ohnishi, S.T. (897) 261)

ATPase, Ca^{2+}-; Calcium ion occlusion; Detergent; Chromium · ATP; ATP, chromium(III) complex (Vilsen, B. (898) 313)

ATPase, Ca^{2+}-; caged ATP; Active transport; Pump current; Black lipid membrane (Hartung, K. (900) 209)

Calcium ion transport; Ryanodine; (Canine heart) (Alderson, B.H. (900) 221)

Local anesthetic; Ion permeability; Light scattering; (Rabbit skeletal muscle) (Escudero, B. (902) 374)

Phosphorylation; Protein kinase, calcium · calmodulin dependent; Calcium ion release; Stopped-flow fluorimetry; Rapid filtration method; (Canine heart) (Kim, H.W. (903) 333)

ATPase, ($Ca^{2+} + Mg^{2+}$)-; Aggregation state; Spin label; Saturation-transfer ESR; ESR; Electron microscopy; (Rabbit muscle) (Napier, R.M. (903) 365)

Chemical cross-linking; ATPase, ($Ca^{2+} + Mg^{2+}$)-; Spin label; Saturation-transfer ESR; ESR; (Rabbit muscle) (Napier, R.M. (903) 374)

Calcium ion accumulation; Tetraphenylboron; Calcium channel blocker; (Rabbit muscle) (Fernández-Belda, F. (903) 473)

ATPase, ($Ca^{2+} + Mg^{2+}$)-; Calcium ion transport; Phospholipid; Reconstitution; (Rabbit muscle) (Gould, G.W. (904) 36)

ATPase, ($Ca^{2+} + Mg^{2+}$)-; Calcium ion efflux; Phospholipid; Reconstitution; (Rabbit) (Gould, G.W. (904) 45)

ATPase, Ca^{2+}-; Triazine dye; Reactive Red 120; Binding site (Coll, R.J. (904) 227)

Terbium binding; Calsequestrin; Calcium analog; (Skeletal muscle) (Ohnishi, M. (915) 180)

Hypothyroidism; Phospholipid; (Rat skeletal muscle) (Simonides, W.S. (924) 204)

Skeletal muscle; Excitation-contraction coupling; Inositol trisphosphate; Ca^{2+} release; (Skinned rabbit muscle fiber) (Donaldson, S.K. (927) 92)

Inositol 1,4,5-trisphosphate; Calcium release; Smooth muscle; (Canine aorta) (Watras, J. (931) 354)

Sarcosine oxidase
FAD; Enzyme mechanism; Stopped flow method; Enzyme kinetics; (*Corynebacterium*) (Kawamura-Konishi, Y. (915) 346)

Saturated fatty acid diet
Diabetes mellitus; Galactose; Glucose; Polyunsaturated fatty acid diet; Ileum; Jejunum (Thomson, A.B.R. (905) 426)

Saturation
NMR, ^2H; NMR, ^{13}C; Phospholipid bilayer; Motional order; Unsaturated phospholipid (Yeagle, P.L. (899) 137)

Saturation transfer
Phosphate exchange, ATP-; NMR, ^{31}P; Thyroid hormone-T_3; Glycolytic enzyme; (Rat liver) (Thoma, W.J. (893) 225)

NMR; ATP–phosphate exchange; Phosphate; Glyceraldehyde-3-phosphate dehydrogenase; Phosphoglycerate kinase (Brindle, K.M. (928) 45)

Saturation-transfer ESR
ATPase, ($Ca^{2+} + Mg^{2+}$)-; Aggregation state; Sarcoplasmic reticulum; Spin label; ESR; Electron microscopy; (Rabbit muscle) (Napier, R.M. (903) 365)

Chemical cross-linking; ATPase, ($Ca^{2+} + Mg^{2+}$)-; Sarcoplasmic reticulum; Spin label; ESR; (Rabbit muscle) (Napier, R.M. (903) 374)

Scavenger receptor
Atherosclerosis; Lipid peroxidation; Apolipoprotein B-100; (mouse macrophage) (Parthasarathy, S. (917) 337)

Cholesterol; Acetylated LDL; Free cholesterol-rich dispersion; (Foam cell); (J774 macrophage) (McCloskey, H.M. (921) 320)

Schistosome infection
Unsaturated fatty acid; Serum lipid composition; (Syrian hamster) (Allan, D. (919) 199)

Scylliorhinine Z1
Protamine; Nuclear basic protein; Sperm chromatin; Amino acid sequence; (Dogfish) (Chevaillier, P. (914) 19)

SDS
Catalase activation; Enzyme–detergent interaction; (*A. niger*) (Jones, M.N. (913) 395)

SDS-polyacrylamide electrophoresis
Muscarinic acetylcholine receptor; Tris/glycinate electrophoresis; Ferguson plot analysis (Repke, H. (929) 62)

Secapin
Apamin; Mast cell degranulating peptide; Circular dichroism; HPLC; (Bee venom) (Dotimas, E.M. (911) 285)

Secondary structure
Ultraviolet circular dichroism; Pigment protein complex; Light harvesting complex; Chlorophyll *c*; (*P. lutherii*); (*Ph. tricornutum*) (Hiller, R.G. (894) 365)

Isoschizomeric restriction endonuclease; Restriction endonuclease; ssDNA cleavage; Oligonucleotide (Reckmann, B. (908) 90)

Circular dichroism; Fluorescence spectroscopy; Discoidin I; Fibronectin; (*D. discoideum*) (Valencia, A. (911) 11)

Beta-bulge; Beta-hairpin; Protein structure; Hydrogen bond (Milner-White, E.J. (911) 261)

κ-Casein; Para-κ-casein; Hydrophobicity; Circular dichroism (Ono, T. (911) 318)

P_2 protein; Circular dichroism; NMR; Tertiary structure (Shin, H.-C. (913) 155)

Hormone receptor; Epidermal growth factor; Insulin receptor; (Human); (Drosophila) (Bajaj, M. (916) 220)

Secondary structure prediction
Superoxide dismutase; Manganese; Circular dichroism; Spectroscopy (Bjerrum, M.J. (915) 225)

Protein folding; Hydrophobic pattern; Conformational state (Busetta, B. (916) 54)

Conformational preference (Williams, R.W. (916) 200)

Secretagogue
Acid secretion; Cycloheximide; Protein synthesis inhibition; ATPase, $(H^+ + K^+)$-; (Rat gastric mucosa) (Im, W.B. (899) 285)

Secretin
Adenylate cyclase; Glucagon; Glycogenolysis; Insulin; (Isolated perfused rat liver) (Yamatani, K. (931) 180)

Secretion
Zymogen granule; Granule aggregation; Stabilization factor; Quasi-elastic light scattering; (Rat pancreas) (Rogers, J. (897) 217)

Exocytosis; Membrane fluidity; Fluorescence; Trimethylammonio-diphenylhexatriene; Shape change; (Human platelet) (Kubina, M. (901) 138)

Pancreasome; Shedding; Membrane lipid; Microvesicle; Glycoprotein; (Pancreas) (Beaudoin, A.R. (922) 62)

Cell wall; Mannoprotein; Glycoprotein; (*S. cerevisiae*) (Sanz, P. (924) 193)

ATPase, H^+/K^+-transporting; Membrane phosphorylation; Histamine; Forskolin; Proton transport; (Rabbit gastric gland) (Urushidani, T. (930) 209)

Secretory component
Tryptic cleavage site; Primary structure; Amino acid sequence homology; Binding domain; (Bovine) (Beale, D. (912) 365)

Secretory granule
Insulin secretion; Chemiosmotic lysis; Permeabilization; (Pancreatic islet) (Jones, P.M. (929) 302)

Secretory HCO_3^- effect
Membrane potential; Secretory K^+ effect; Secretory Na^+ effect; Cimetidine inhibition; Histamine; (*R. pipiens* fundus) (Schwartz, M. (897) 445)

Secretory K^+ effect
Membrane potential; Secretory Na^+ effect; Secretory HCO_3^- effect; Cimetidine inhibition; Histamine; (*R. pipiens* fundus) (Schwartz, M. (897) 445)

Membrane potential; Acid secretion inhibition; Proton pump; Electrogenic proton pump; (*R. pipiens* fundus) (Rehm, W.S. (899) 17)

Secretory Na^+ effect
Membrane potential; Secretory K^+ effect; Secretory HCO_3^- effect; Cimetidine inhibition; Histamine; (*R. pipiens* fundus) (Schwartz, M. (897) 445)

Sedimentation characteristic
Insulin; Glucose transport; Plasma membrane; Specific gravity; (Rat adipocyte) (Shibata, Y. (902) 154)

Sedimentation property
Glucocorticoid receptor oligomer; DNA binding; (HeLa S_3 cell) (Rossini, G.P. (924) 119)

Seed proteins
Cereal storage proteins; Prolamin; Immunochemistry; Amino acid sequence homology (Festenstein, G.N. (912) 371)

Selective electrode
Membrane potential; Lipophilic cation binding; (Mitochondrion) (Demura, M. (894) 355)

Selenium
Enzyme induction; Glutathione peroxidase; (Mammalian cell) (Sandström, B.E.R. (929) 148)

Selenium deficiency
Arachidonate metabolism; Lipid hydroperoxide; Prostaglandin; Glutathione peroxidase; (Rat aorta); (Rabbit aorta) (Funk, C.D. (921) 213)

Glutathione; Mixed disulfide; Peroxidase; (Rat heart) (Hill, K.E. (923) 431)

Intermediary metabolism; Glucose utilization; Nitrogen excretion; Carbon dioxide exhalation; (Mouse) (Wendel, A. (925) 94)

Self-association
Apolipoprotein A-IV; Helical hydrophobic moment; Lipid binding (Weinberg, R.B. (918) 299)

Semiquinone
Diaziridinyl benzoquinone; Pulse radiolysis; ESR; Enzyme reduction (Butler, J. (925) 144)

Semisynthesis
Aprotinin; Proteinase inhibitor; Leukocyte elastase inhibitor; Active site titrant (Tschesche, H. (913) 97)

Sendai virus
Cholesterol synthesis; Membrane fusion; Membrane fluidity; Amphotericin B; (Chinese hamster cell) (Yoshimura, A. (904) 159)

Sensitized emission
2-Nitropropane; Peroxidase; Aerobic oxidation; Excited state (Indig, G.L. (923) 347)

β-Phenylpyruvic acid; Horseradish peroxidase; Chemiexcitation; Energy transfer (Villablanca, M. (926) 224)

Sensory signal processing
cyclic GMP; Calcium; Methylation; (Halobacteria) (Schimz, A. (923) 222)

Sequence analysis
ATPase, $(Na^+ + K^+)$-; cDNA; β subunit; Structural model; (Canine kidney) (Brown, T.A. (912) 244)

Vasoactive intestinal peptide; Elasmobranch; Receptor binding; Amylase secretion; C-terminal amidation (Dimaline, R. (930) 97)

Sequence heterogeneity
α2u-Globulin; Length polymorphism; cDNA clone; mRNA; Noncoding region; (Rat liver) (Ichiyoshi, Y. (910) 43)

Sequence homology
Hepatic lipase; Lipoprotein lipase; Pancreatic lipase; Amino acid sequence (Ben-Zeev, O. (919) 13)

Serine
Amino acid transport; Sodium/serine (threonine) cotransport; Threonine; (*E. coli*) (Hama, H. (905) 231)

L-Serine
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Tyrosinase; 4-Methylcatechol oxidation; *p*-Cresol; (Frog epidermis) (García-Carmona, F. (914) 198)

Serine phospholipid
Histamine release; Lysophosphatidylserine; Nerve growth factor; (Mast cell, Basophil) (Kolster, L. (927) 196)

Serine proteinase
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Active site titrant; Active enzyme concentration; Enzyme kinetics (Ascenzi, P. (915) 421)

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Serine proteinase inhibitor
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Serine sulfhydrase
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Serotonin release
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Serotonin-S_2 receptor
Signal transduction; Inositol phospholipid; (Human platelet) (De Chaffoy de Courcelles, D. (927) 291)

Serotonin uptake
Endogenous modulator; Imipramine binding site; α_1-Acid glycoprotein; (Human) (Abraham, K.I. (923) 8)

Aggregation inhibitor; Carbamoylpiperidine derivative; Nipecotoylpiperazine derivative; (Platelet) (Lasslo, A. (923) 443)

Serum
Ascorbic acid; Membrane transport; Sodium ion cotransport; Inhibitor; (3T6 fibroblast) (Padh, H. (901) 283)

Riboflavin carrier protein; Chromatography, fast protein liquid; Immunochemistry; (Chicken egg-white); (Pregnant monkey) (Visweswariah, S.S. (915) 141)

Insulin; Dexamethasone; mRNA level; Insulin receptor; (Human lymphoblast) (Maassen, J.A. (930) 72)

Serum albumin
NMR, ^{1}H-; Peptide fragment; Circular dichroism; Copper-binding site; Nickel-binding site (Reverend, B.D.-L. (912) 16)

Refolding; Solvent effect (Damodaran, S. (914) 114)

Serum concentration
Membrane fluidity; Insulin binding; Differentiation; ESR; (Friend erythroleukemia) (Simon, I. (896) 165)

Serum level
Transcortin; Glycoprotein; Carbohydrate structure; Pregnancy; (Human) (Avvakumov, G.V. (925) 11)

Serum lipid composition
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Serum stimulation
Cytochalasin D; Cell cycle dependent gene; Cell proliferation; (Monkey kidney cells) (Takasuka, T. (909) 161)

Serum transaminase
Fatty acid composition; Hypoxia; Tetrachloromethane; Polyunsaturated fatty acid; Glutamate dehydrogenase; (Rat liver microsome) (Frank, H. (922) 54)

Sesquiterpene lactone
Inosine monophosphate dehydrogenase; Antineoplastic drug (Page, J.D. (926) 186)

Sex difference
α-Bromopalmitate; Fatty acid binding protein; Essential fatty acid; Linoleic acid; Arachidonic acid; (Rat hepatocyte) (Hagve, T.-A. (917) 333)

Lecithin–cholesterol acyltransferase; Dietary lipid; Genetics; Cholesterol; HPLC; (Baboon) (Mott, G.E. (919) 190)

Chain elongation; Desaturation; Essential fatty acid; Fatty acid binding protein; Fatty acid synthesis; (Rat hepatocyte) (Hagve, T.-A. (920) 149)

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Acidic uncoupler; Oxidative phosphorylation; Protonophoric potency; Structure-activity relationship (Miyoshi, H. (891) 293)

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Shape change
Exocytosis; Membrane fluidity; Fluorescence; Trimethylammonio-diphenylhexatriene; Secretion; (Human platelet) (Kubina, M. (901) 138)

Vesicle release; Membrane penetrating drug; Drug–membrane interaction; Calcium; Erythrocyte membrane; (Human erythrocyte) (Bütikofer, P. (901) 291)

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Shear stress
Von Willebrand factor; Surface activation; Latex adsorption; Platelet agglutination (Furlan, M. (924) 27)

Shedding
Pancreasome; Secretion; Membrane lipid; Microvesicle; Glycoprotein; (Pancreas) (Beaudoin, A.R. (922) 62)

Short-circuit current
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Glycoprotein; Hemagglutinin; (Bovine erythrocyte membrane); (Influenza virus) (Suzuki, Y. (903) 417)

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Brush-border glycoprotein; Lectin; Fucose; Galactosamine; (Rat small intestine) (Srivastava, O.P. (914) 143)

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Signal II
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Signal sequence
Antithrombin III; Yeast cloning; Gene expression; Immunoassay; (Human gene; *S. cerevisiae; S. pombe*) (Bröker, M. (908) 203)

Signal transduction
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Simian virus 40
Large tumor antigen; T antigen; Viral DNA replication (Stahl, H. (910) 1)

DNA replication; Plasmid DNA; Nuclear matrix; Productive infection; (Monkey kidney cell) (Jones, C. (910) 52)

Sindbis virus
Membrane fusion; Phosphatidylethanolamine; Cholesterol; Non-bilayer phase lipid; Headgroup hydration (Scheule, R.K. (899) 185)

Single cell rotation
Membrane capacity; Membrane resistivity; Electric field effect; Conductivity; Zona pellucida conductivity; (Mouse oocyte) (Arnold, W.M. (905) 454)

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Single-channel conductance
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Single-channel current
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Single-channel recording
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Singlet oxygen
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Methylallopsoralen; DNA photobinding; Photochemotherapy (Vedaldi, D. (925) 101)

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Bromosulfophthalein; Uptake kinetics; Facilitated transport; (Rat liver) (Potter, B.J. (898) 159)

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Site specific phosphorylation
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Dioleoylphosphatidylcholine; Channel conformation; Gramicidin; Hexagonal H_{II} phase; Lipid polymorphism; Circular dichroism; NMR, ^{31}P- (Tournois, H. (905) 222)

Octopine dehydrogenase; Ligand binding; Tertiary structure; Conformational change (Thomé, F. (915) 342)

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S-Adenosyl-L-methionine; Phospholipid methylation; Brush-border membrane (Rat) (Dudeja, P.K. (919) 307)

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Sarcoplasmic reticulum; Inositol 1,4,5-trisphosphate; Calcium release; (Canine aorta) (Watras, J. (931) 354)

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Hemorrhagic proteinase; Zinc; Metalloproteinase; Circular dichroism; (*C. atrox*) (Bjarnason, J.B. (911) 356)

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Inositol phosphate; Lithium; Calcium; Noradrenaline; α-Adrenergic receptor; (Hamster brown adipose tissue) (Nånberg, E. (930) 438)

Sodium arsenite
Cell cycle; Hyperthemia; Leucine incorporation; Phosphate; Stress Protein; (Lymphoma) (Pipkin, J.L. (927) 334)

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Sodium–calcium exchange
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Sodium–calcium ion exchange
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Calcium ion transport; Phosphorylation; (Squid axon) (Di-Polo, R. (897) 347)

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Sarcolemmal membrane; Peripheral protein; ATPase, ($Na^+ + K^+$); Freeze-fracture electron microscopy; (Dog ventricle) (Philipson, K.D. (899) 59)

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Sodium cotransport
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Glucose transport; Cell culture; High-affinity transport; Kinetics; Inhibition; (Rabbit proximal tubule cell) (Alavi, N. (899) 9)

Brush-border membrane; Proximal tubule; Glycine transport; Chloride dependence; (Porcine kidney) (Scalera, V. (903) 1)

Taurocholate uptake; Membrane potential; L-Alanine; Cholic acid; Ouabain; Gramicidin; (Rat hepatocyte) (Bear, C.E. (903) 388)

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Arachidonic acid metabolism; Leukotriene biosynthesis; Anti-inflammatory drug; (Human leukocyte) (Kothari, H.V. (921) 502)

Sodium/glucose cotransport
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Amino acid transport; L-Glutamate; Potassium gradient; Membrane vesicle; (Human intestine) (Harig, J.M. (903) 358)

Sodium–hydrogen ion exchange
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Sodium ion
Adenosine; Co-transport; *(V. parahaemolyticus)* (Sakai, Y. (893) 43)

Phosphate uptake; Phospholipid biosynthesis; Cellular compartmentation; (Mouse neuroblastoma) (Glanville, N.T. (904) 392)

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Sodium ion binding
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Sodium ion channel
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Sodium ion cotransport
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Iodine transport; Electrogenic transport; Plasma membrane vesicle; (Hog thyroid gland) (O'Neill, B. (896) 263)

Phosphate transport; Brush-border membrane; pH dependence; Kinetics; (Rat kidney cortex) (Bindels, R.J.M. (897) 83)

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Sodium ion dependent transport
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Sodium ion / D-glucose cotransporter
Glucose transport; Alanine transport; Brush-border membrane; Mitomycin C; Sodium gradient; (Rat small intestine) (Mizuno, M. (902) 93)

Sodium ion effect
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Sodium ion transport
Flavoprotein; NADH : quinone reductase; Respiratory chain; Subunit composition; (Marine bacterium, *V. alginolyticus*) (Hayashi, M. (890) 47)

Exchange, Na^+–H^+; Tributyltin; cell pH; (Dog erythrocyte) (Parker, J.C., Funder, J. (899) 311)

Ion transport; Sodium pump, second; Epithelial cell; Small intestine; (Guinea-pig) (Del Castillo, J.R. (901) 209)

Countertransport; Lithium-sodium ion countertransport; Calcium ion, intracellular; (Human erythrocyte) (Agam, G. (904) 207)

Sodium periodate
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Sodium / potassium / chloride cotransport
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Sodium / potassium cotransport
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Sodium / potassium ion antiporter
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Sodium–proton exchange
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Sodium pump
L antigen; Antigen, anti-L; Sodium periodate; Neuraminidase; (Sheep red cell) (Stein, J.M. (904) 330)

Sodium pump, second
Ion transport; Sodium ion transport; Epithelial cell; Small intestine; (Guinea-pig) (Del Castillo, J.R. (901) 209)

Sodium / serine (threonine) cotransport
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Sodium–sodium ion exchange
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Solvatochromic effect
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Solvent effect
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Serum albumin; Refolding (Damodaran, S. (914) 114)

α-Tocopherol; Oxidation model (Sumarno, M. (920) 247)

Solvent reorganization
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Solvent–solute interaction
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Somatomedin
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Soybean
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Glycoprotein binding; NMR, ^{13}C; Ovalbumin (Berman, E. (924) 403)

Special-pair triplet state
Optical spectra simulation; Reaction center; Exciton model; (*Rb. sphaeroides, C. aurantiacus*) (Scherer, P.O.J. (891) 157)

Specific gravity
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Spectrin
Fluorescence quenching; Phospholipid; Erythrocyte membrane; (Human) (Sikorski, A.F. (904) 55)

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Spectroelectrochemistry
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Electron-transferring flavoprotein; Flavoprotein; Redox potential; Oxidation-reduction; (*M. elsdenii*) (Pace, C.P. (911) 267)

Spectrophotometry
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Tyrosinase; 4-Methylcatechol oxidation; L-Serine; (Frog epidermis) (Cabanes, J. (914) 190)

Sulfobromophthalein uptake; Bilitranslocase; Organic anion transport; (Isolated rat hepatocyte) (Persico, M. (930) 129)

Spectroscopy
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Circular dichroism; Cytochrome bc_1 complex; Cytochrome c_1; Cytochrome *b*; (Bovine heart mitochondria) (Degli Esposti, M. (892) 245)

Photosystem II; Reaction center; Chlorophyll protein (Van Dorssen, R.J. (893) 267)

Photosynthetic bacterium; Light-harvesting complex B800–850; Lithium dodecyl sulfate; Sodium borohydride (Chadwick, B.W. (893) 444)

Photosynthesis; Water splitting; Manganese; S-state transition; (*Cyanobacterium*) (Saygin, Ö. (893) 452)

Photosystem II; S-state transition; Temperature dependence; Water splitting; Thermophilic cyanobacterium; Cyanobacterium; (*S. vulcanus* Copeland) (Koike, H. (893) 524)

Superoxide dismutase; Manganese; Secondary structure prediction; Circular dichroism (Bjerrum, M.J. (915) 225)

Ascorbate oxidase; Multicopper oxidase; Circular dichroism; ESR (Sakurai, T. (915) 238)

Spectroscopy, difference
Photosystem II; Oxygen evolving complex; Manganese; Cytochrome *b*-559; S state transition (Lavergne, J. (894) 91)

Sperm chromatin
Scylliorhinine Z1; Protamine; Nuclear basic protein; Amino acid sequence; (Dogfish) (Chevaillier, P. (914) 19)

Spermidine
Putrescine; Ornithine decarboxylase; Polyamine oxidase; Polyamine reutilization (Bolkenius, F.N. (923) 125)

Spermidine acetylation
Acetyltransferase; Dexamethasone; Ornithine decarboxylase; (Rat spleen) (Stefanelli, C. (930) 79)

Spermine
DNA fragment; DNA condensation; DNA bending; Electric dichroism (Marquet, R. (909) 165)

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Sperm maturation
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Sperm respiration
Adenylate cyclase; Bicarbonate; cyclic AMP; Sperm motility; Ejaculation; Metabolic carbon dioxide (Tajima, Y. (924) 519)

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Lipoxygenase; Essential fatty acid; Arachidonate; Linoleate; (Rat epidermis) (Nugteren, D.H. (921) 135)

Linoleic acid; Essential fatty acid deficiency; Water loss; Acylceramide; (Pig epidermis) (Melton, J.L. (921) 191)

Galactolipid; Sulfatide synthesis; Dimethyl sulfoxide; (Transformed Schwann cell) (Sutrina, S.L. (923) 451)

Sphingomyelin
Phosphatidylcholine : ceramide choline phosphotransferase; Enzyme kinetics; Phosphatidylcholine; Choline phosphotransferase; Enzyme topography; (Mouse ascites cell) (Marggraf, W.-D. (897) 57)

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HDL; Apolipoprotein A_1; Lipid recombinant; Prostaglandin; Fluorescence; (Human plasma) (Bergelson, L.D. (921) 182)

Sphingomyelinase
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Sphingomyelin degradation
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Sphingomyelin synthesis
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Spin label
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Stable ternary complex
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Pregnenolone; Androstadienol; 16α-Hydrogen removal; Steroid synthesis; (Pig testis microsome) (Kohara, H. (921) 90)

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Steroid synthesis
Pregnenolone; Androstadienol; 16α-Hydrogen removal; Stereospecificity; (Pig testis microsome) (Kohara, H. (921) 90)

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Lipid transfer protein; Cerebro-hepato-renal syndrome; Zellweger syndrome; (Peroxisome) (Van Amerongen, A. (919) 149)

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Steryl ester
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Streptozotocin diabetes
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Cytochrome *P*-450; Conformational change; Polycyclic aromatic hydrocarbon; Excitation energy transfer (Omata, Y. (912) 115)

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Phospholipase C; Thiophosphate analog assay; Stereoselectivity (Snyder, W.R. (920) 155)

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Succinate dehydrogenase
Succinate–cytochrome *c* reductase; Cytochrome *c* (Yu, L. (893) 75)

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Orotate phosphoribosyltransferase; Enzyme kinetics; NMR, ^{31}P-; Thio analog; (Yeast) (Tavares, A. (913) 279)

α-Crystallin; Aging; Conformational change; Quaternary structure (Augusteyn, R.C. (915) 132)

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Horseradish peroxidase; Peroxide formation; Disulfide bond; Enzyme enhancement (Walker, M.R. (915) 321)

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Cu(II) complex; Nitroblue tetrazolium chloride reduction; ESR; Spin trapping (Huber, K.R. (915) 267)

Calcium ion mobilization; Protein kinase C; Concanavalin A; Phorbol ester; Diacylglycerol; (Rat alveolar macrophage) (Dorio, R.J. (928) 137)

Surface activation
Von Willebrand factor; Shear stress; Latex adsorption; Platelet agglutination (Furlan, M. (924) 27)

Surface-active material
Pulmonary surfactant; Fourier transform; Infrared spectroscopy; Phase transition; Differential scanning calorimetry; (Rabbit lung) (Mautone, A.J. (896) 1)

Surface charge
Bilayer; Potential-sensitive dye; Dimyristoylphosphatidylcholine vesicle (Bammel, B.P. (896) 136)

Surface charge density
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Surface hydrophobicity
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Surface iodination
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Surface viscosity
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α-Glucosidase; acid α-Glucosidase; Maturation; (Fetal rat lung) (Bourbon, J.R. (917) 203)

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Thiamin triphosphate
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Transfected DNA expression
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Transport system ASC
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L-Triiodothyronine binding site
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Tryptophanyl-tRNA synthetase
tRNA; Tryptophan–tRNA ligase; Binding stoichiometry; Fluorescence quenching; Chemical modification; (Bovine pancreas) (Fournier, M. (916) 350)

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Ubiquinone oxidoreductase
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